

ALT286 / ALT386SX LAPTOP COMPUTER V.FTZ

SERVICE MANUAL

ALT286 Main P.C.B. Top & Bottom Views ALT386SX Main P.C.B. Top & Bottom Views 14 & 15 **Technical Specifications** Safety Tests 16 & 17 ALT286/386SX LCD Inverter P.C.B. ALT286 Main P.C.B. Schematic Diagram (1) 19 3 ALT286 Main P.C.B. Schematic Diagram (2) 20 ALT286/386SX Keyboard P.C.B. 4 ALT286 Co-Processor/Memory Schematic Diagram 21 ALT286/386SX Expansion Slot P.C.B. 5 ALT286 Co-Processor P.C.B. Top & Bottom Views ALT286/386SX VGA Schematic Diagram 22 6 & 7 ALT286/386SX Peripheral Schematic Diagram 23 ALT286/386SX VGA P.C.B. Top & Bottom Views 8 & 9 24 ALT286/386SX Electrical Parts List 10 & 11 ALT386SX Main P.C.B. Schematic Diagram (1) ALT386SX Main P.C.B. Schematic Diagram (2) 25 12 Cabinet Parts List 26 ALT386SX Co-Processor/Memory Schematic Diagram Cabinet Exploded View 13

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TECHNICAL SPECIFICATION

MODEL	ALT286	ALT386SX
Processor	80286	80386SX
Speed	16MHz (switchable to 8 MHz)	16MHz (switchable to 8MHz)
Wait States	1 (O with 60ns DRAM)	0.6 (0 with 60ns DRAM)
RAM	1Mb (2Mb and 4Mb upgrades)	1Mb (2Mb and 4Mb upgrades)
Expansion Slot	nal 16-bit, half length	1 x 16-bit, half length
Power Save Features	Power down of LCD & HDD after user	Power down of LCD & HDD after user
	selectable time or keystroke	selectable time or keystroke
Hard Disk (Voice Coil Type)	20Mb (28ms access time)	40Mb (25ms access time)
Floppy Drive	1 x 3.5" x 1.44Mb	1 x 3.5" x 1.44Mb
External Floppy Drive	1 x 3.5" x 720Kb or 1.44Mb	1 x 3.5" x 720Kb or 1.44Mb
Connector suitable for use with	h /5.25" x 360Kb or 1.2Mb	/5.25" x 360Kb or 1.2Mb
Graphics	VGA/EGA/CGA/MDA/Hercules	VGA/EGA/CGA/MDA/Hercules
Parallel Port	1 x 25-pin D-type	1 x 25-pin D-type
Serial Port	2 x 9-pin D-type	2 x 9-pin D-type
Keyboard	85-key, integrated numeric keypad,	85-key, integrated numeric keypad,
	12 function keys	12 function keys
Maths co-processor	Socket available	Socket available
System Reset Switch	Available	Available
External Interfaces	VGA Monitor Port	VGA Monitor Port
	IBM AT Compatible Keyboard Socket	IBM AT Compatible Keyboard Socket
Power Supply		Internal 110-220-240V AC Self-Switching PSU
		Removable Recharchable NiCad Battery Pack
	2 Hour Life with Normal Usage	2 Hour Life with Normal Usage
Battery Charging	Built In Battery Charger Unit	Built In Battery Charger Unit
	2 Hour Charge Time on "Quick Charge"	2 Hour Charge Time on "Quick Charge"
Supplied Software	MS-DOS 3.30 Operating System	MS-DOS 3.30 Operating System
DIMENSIONS		
Width	318mm	318mm
Depth	380mm	380mm
Height	95mm	95mm
Weight	7.00Kg (inc. battery pack)	7.00Kg (inc. battery pack)
3	6.00Kg (without battery pack)	6.00Kg (without battery pack)
SCREEN		
Type	Backlit LCD	Backlit LCD
Dimensions	223 x 169mm	223 x 169mm
Resolution	640 x 480 pixels	640 x 480 pixels
Grey Scales	32 in 256-colour VGA mode	32 in 256-colour VGA mode

SAFETY TEST

All monitors are tested to the following specifications.

- 1. Flash Test: Test at 1.5kV RMS / 3 sec between the live and neutral poles of the mains lead and all accessible metal points on the exterior of the set.
- 2. Insulation Resistance Test: Test at 1.5kV RMS / 3 sec between the live and neutral poles of the mains lead and all accessible metal points on the exterior of the set to show a resistance greater than 4Mohms.
- 3. Earth Continuity Test: The resistance of the mains lead shall not exceed 0.5ohms.

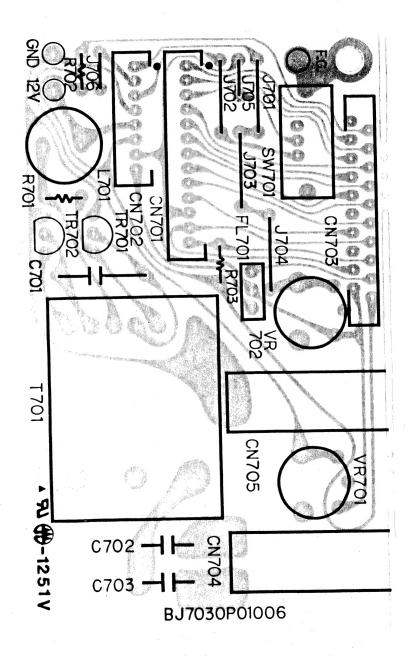
PLEASE NOTE: When any work is completed on this unit, correct safety tests must be carried out to ensure continued electrical safety.

PLEASE NOTE: All parts shown with the part number prefix !\(\) are Safety Items and must be replaced with similar items having an identical safety specification.

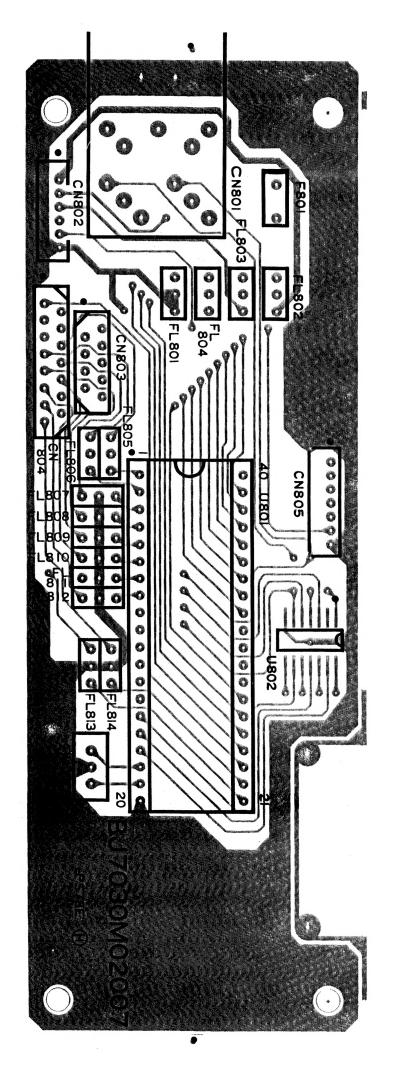
All those items may be purchased direct from AMSTRAD plc.

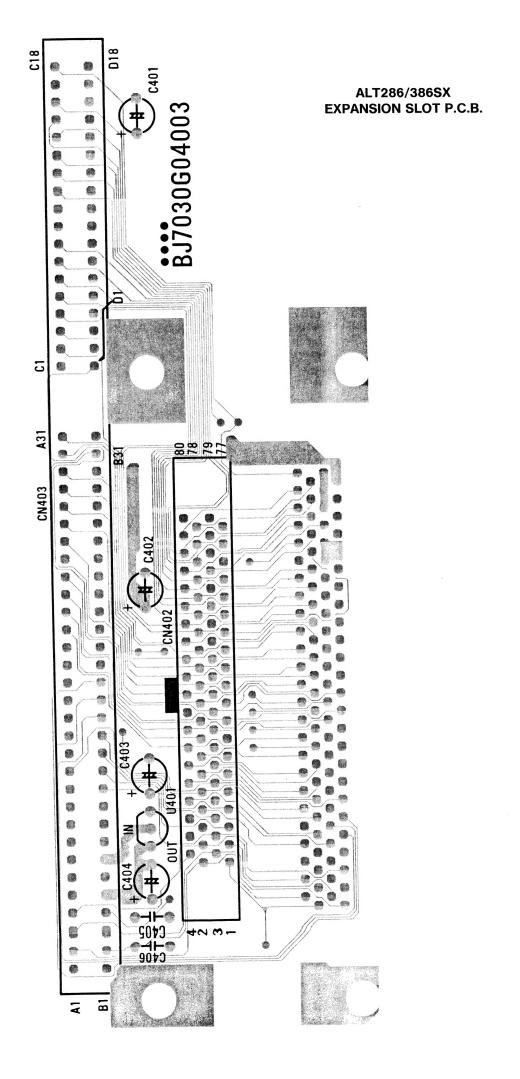
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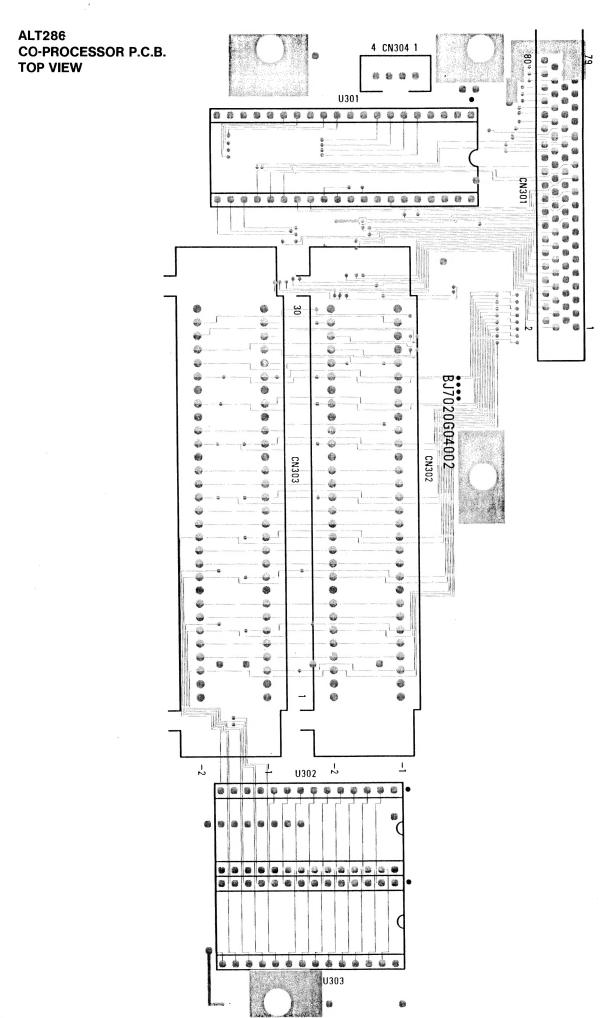
ALT286/386SX LCD INVERTER P.C.B. COMPONENT VIEW

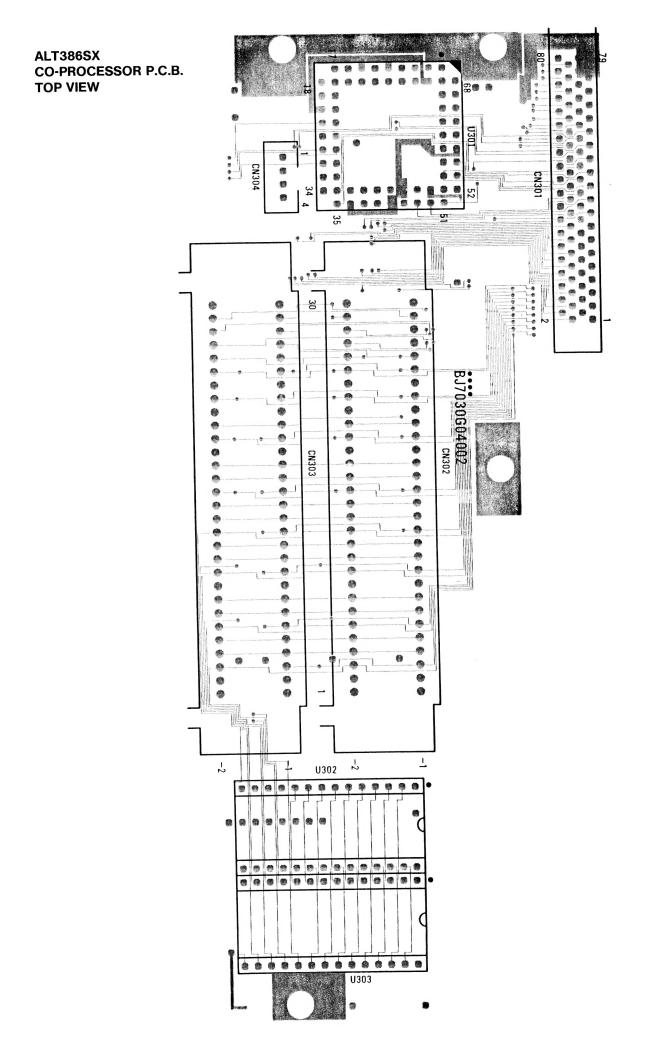


ALT286/386SX KEYBOARD P.C.B.

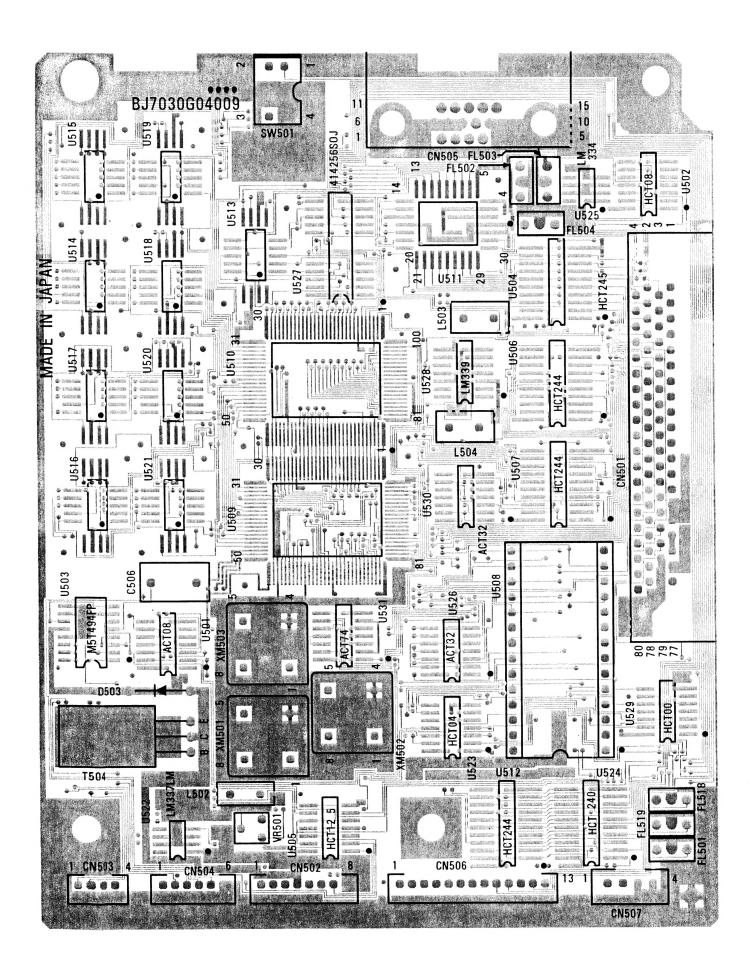


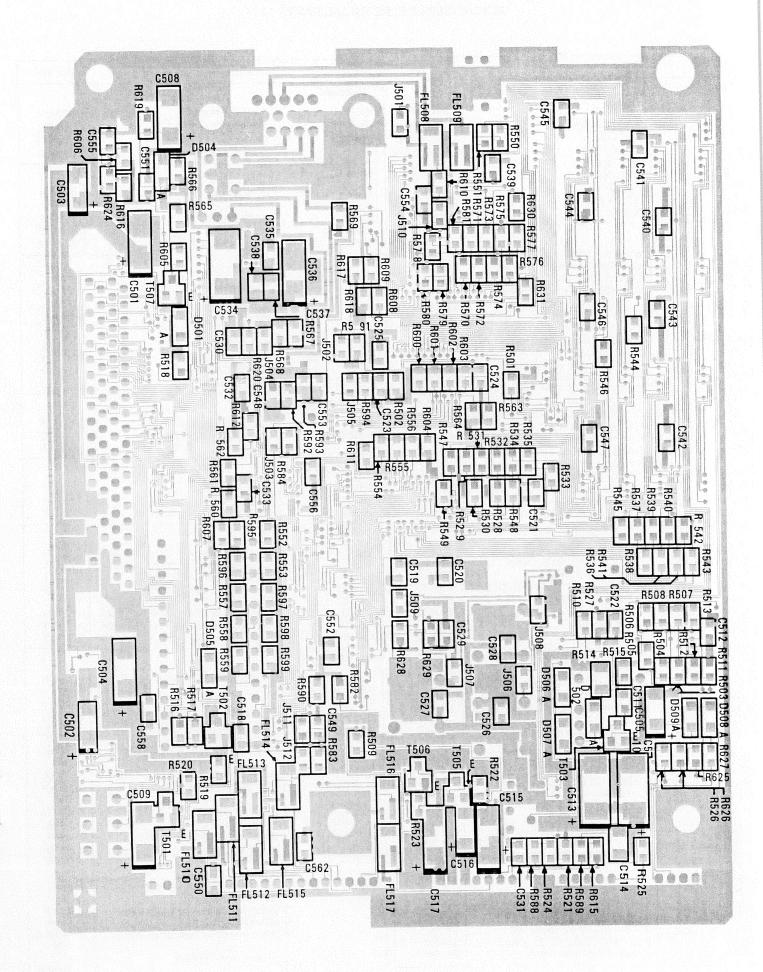






ALT286/386SX VGA P.C.B. COMPONENT LAYOUT TOP VIEW





ALT286/386SX ELECTRICAL PARTS LIST

Ref. No.	Description	Part No.
PCB's		
PCB1	PCB Main	270354FTZ
PCB1-2	PCB LED Reset	270354-2
		270354-3
PCB1-3	PCB LED	270351FTZ
PCB2	PCB Co-Pro	270353FTZ
PCB3	PCB Slot PCB VGA	270563
PCB4	PCB D-Ram	270352
PCB5	PCB Keyboard	270355FTZ
PCB6 PCB7	PCB DC/AC	270356FTZ
	FGB DO/AO	
IC's		
U101	IC FIP N80L286-16XS 16 Bit CPU	270358
U102	IC VL82C201-16QC Chip Set	270359
U103	IC VL82C204-16QC Chip Set	270360
U104	IC VL82C203-16QC Chip Set	270361
U105	IC VL82C100-QC Chip Set	270362
U106	IC MB88202-1008 4 Bit 1 Chip	270363
	Micro Processor	
U113, 504	IC PC74HCT245T-T HCMOS LOGIC	270364
U114	IC 74F04SJ/63	270365
U115	IC TC74ACT32F-EL ACMOS LOGIC	270366
U117, 505	IC PC74HCT125T-T HCMOS LOGIC	270367
U118	IC PC74HCT74T-T HCMOS LOGIC	270368
U119, 529	IC PC74HCT00T-T HCMOS LOGIC	270369
U120	IC PC74HCT367T-T HCMOS LOGIC	270370
U121	IC VL82C202-16QC Chip Set	270371
U123	IC VL16C452-AQC	270372
U124	IC M5L8042 8 Bit 1 Chip Micro	270373
	Processor	270374
U125	IC DP8473V FDD Controller	1
U126	IC MC146818AF RTC Controller	171399
U127	IC HEF4069UBT-T	270375
U128	IC PAL20L8BCNSTD	
U129-130	IC SN74HCT244NS/	270377
	TC74HCT244AF-EL IC DS14C88M/63 RS232C Driver	270378
U132, 135	IC DS14C88M/63 R5232C Driver	270379
U133, 134, 136		270380
U137	IC PST529D-2 Reset IC PC74HCT14T-T HCMOS LOGIC	270381
U138	IC TC74HCT00AF-EL	270382
U139	IC 74F00SJ/63	270383
U141	IC 74F00SJ/63	270384
U142 U143	IC N74F19D-T	270385
1	IC TMS27C256-20JL	270386
U302 U303	IC TMS27C256-29JL	270387
U501	IC TC74ACT08F-EL	270388
U502	IC PC74HCT08T-T HCMOS LOGIC	270389
U503	IC M5T494FP Switching Control	270390
U122, 506, 507,	IC PC74HCT244T-T HMOS LOGIC	270391
512		
U508	IC M5M27C512AK-15 CMOS	270392
LIEGO	EPROM IC CL-GD620 VGA	270393
U509	IC CL-GD620 VGA	270394
U510	IC CL-GD610 VGA IC IMSG176J-4 Colour Palette	270395
U511	IC MSG176J-4 Colour Palette	270396
U513	IC MN41464AJ-09/	270397
U514-521	UPD41464L-10-E3	1
U522	IC I M337LM/63 3 Terminal Reg.	270398
U523	IC PC74HCT04T-T HCMOS LOGIC	270399
U524	IC PC74HCT240T-T HCMOS LOGIC	270400
U525	IC LM334M/63 Regulator	270401
U526, 530	IC TC74ACT32F-EL	270402
U401	IC LM79L05ACZ 3 Terminal Reg.	270403
U801	IC MSM80C51RS 1 Chip Micro	270404
U803	IC SN74LS07NS TTL(LS)	270405
U901	IC MN41C4256SJ-08 DRAM	270406
U902	IC UPD424256LA-80-E2 DRAM	174025
U903	IC MN41256AJ-08 DRAM	270564

		Part No.
Ref. No.	Description	rait ivo.
Switches SW101 SW501 SW701 SW1001	Switch, DIP KSP10 Switch, DIP KSP02 Switch, Slide SSSF-S-001 Switch, Tact SKHHQN001	270407 270408 270409 270410
Diodes		
D101-104, 501, 504-507, 801 D502	D RLS4151 DZ RLZ3.3B	270411 270412
D503 DA101	D RGP-10D D SN74S1053NS Array	270413 270414
Transistors		070445
T101, 105 T102 T103, 106, 107 T104 T501, 505 T502 T503, 506, 507	TR 2SC2412(K) TR 2SD1664 TR DTA144EK TR 2SA1037K TR 2SB1198K TR 2SD1483K TR DTC144EK	270415 270416 270417 270418 270419 270420 270421 270422
T504 T701, 702	TR 2SC2334-S3 TR 2SC3328YTPE6	270423
Coils & Inductors	Chip Inductor BLM31A02 Choke Coil (SN) SNT-S20	270424 270425
L701	Inductor TSL1110-221KR68	270426
Variable Resistor	rs	
VR501 VR701 VR702	VRSF RH0421C VROT RK08H1110 1k Ω VROT RK08H1110 5k Ω	270427 176673 270429
Crystals		
X101 X103 X104 XM101 XM102 XM501 XM502 XM503	X'Tal Resonator AT-49 14.31818M X'Tal Resonator DT-38-32.768kHz X'Tal Resonator AT-49 24M X'Tal Module DOC-70 64M X'Tal Module DOC-2E 1.8432M X'Tal Module KHO-CS1-E 25.175M X'Tal Module KHO-CS1-E 28.322M X'Tal Module DOC-431CC 32.514M	270430 176174 270431 270432 176173 176179 176178 270433
Miscellaneous		
FL101, 102, 104, 109-113, 115, 116	Chip Tube Filter NFM61T20472	270434
FL105, 107, 108 FL106 FL301 FL117-123,	Filter NFV610-655-T2A-506 Filter NFV610-655-T2A-107 Chip Filter NFM61T20472 Chip Filter NLL4532T-4R7222H	270435 270436 270437 270438
501-119 FL701 D1001-1003,	Filter DSS30S-91B471M LED (Green) GL3KG18	270439 270440
1006 D1004, 1005 L101-104, 109 L801-804 BT101	2 Colour LED Bead Core Bead Core BL02RN2-R62T2 NI-CD Battery	270441 270443 270444 270450
TC101 F801 X801 T701	Trimmer Capacitor ICPF25 IC Protector Ceramic Resonator CST6.00MGW Transformer FN-1051 Mains Lead U.K. Mains Lead Euro Users Instructions ALT286/386SX	270446 270447 270448 270449 270053 270054 UI-ALT286/ 386SX
	System Disk VER 3.3 Country Variance KBD + Key Puller	Soft 33000/UK

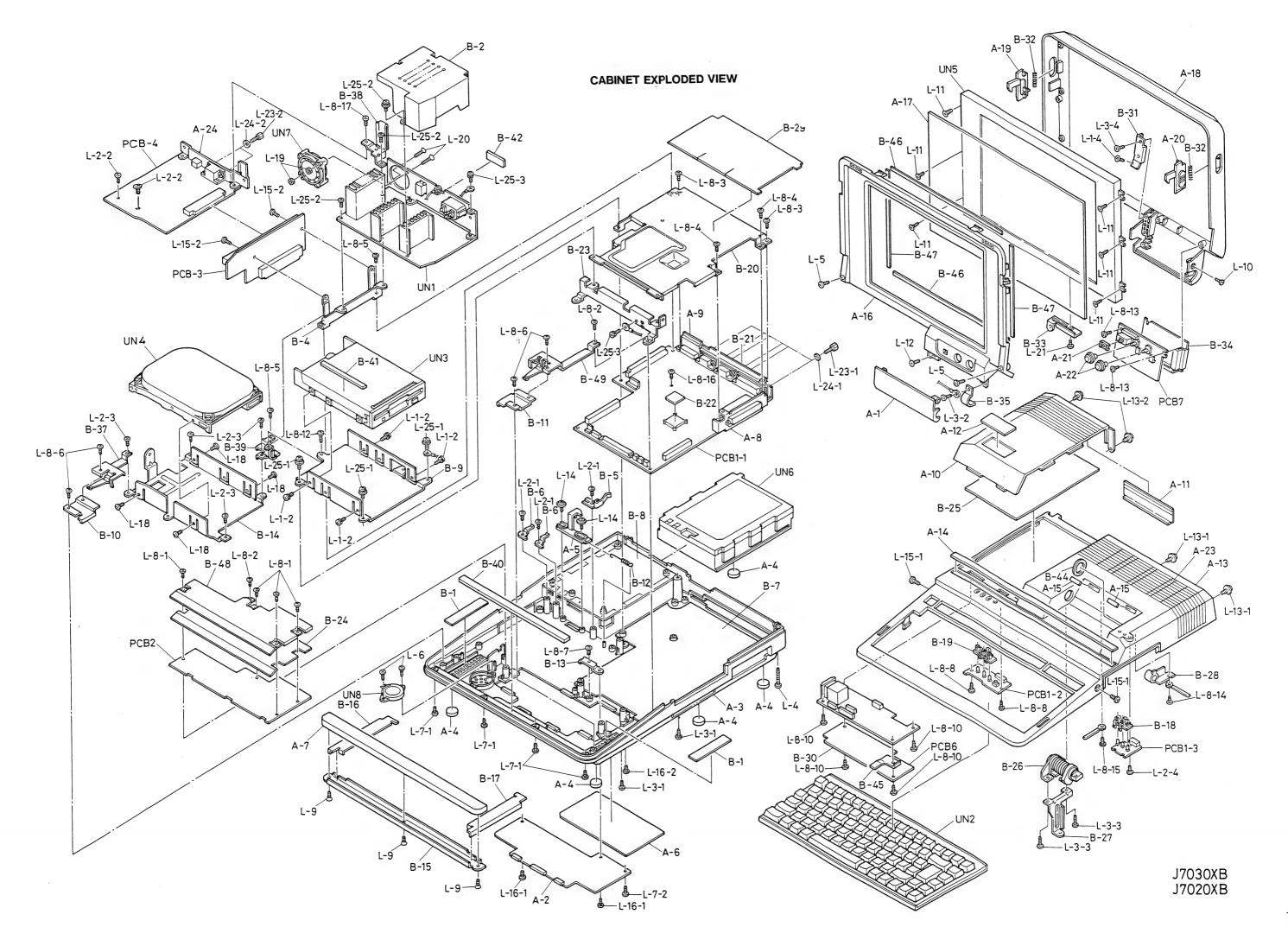
ALT386SX ELECTRICAL PARTS LIST (parts additional to preceding list)

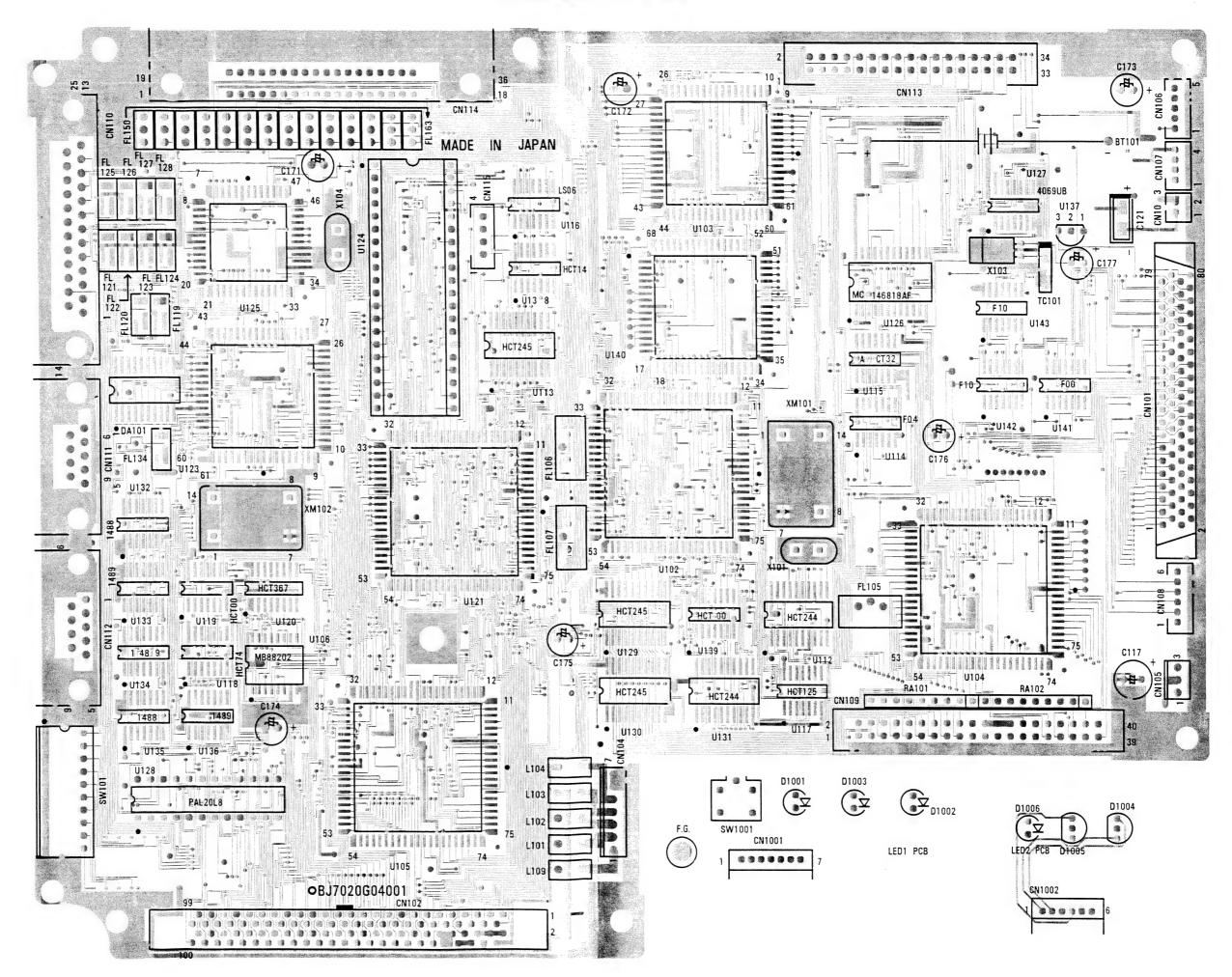
Ref. No.	Description	Part No.
P.C.B.s		
PCB1	PCB Main	270673FTZ
PCB2	PCB Co Pro/Mem	270650FTZ
IC's		
U101	IC NG80386SX-16 32 Bit CPU FIP	270653
U107	IC PAL16R8BCNSTD PAL	270654
U108	IC PAL16R8ACNSTD PAL	270655
U109-111	IC PC74HCT373T-T HCMOS LOGIC	270656
U116	IC SN74LS06NS TTL (LS)	175043
U122	IC VL82C205A-16QC Chip Set	270658
U302	IC TMS27C256-20 JL EPROM	270674
U303	IC TMS27C256-20JL EPROM	270675
U401	IC LM79L05ACZ 3 Terminal Reg.	270403
U501	IC TC74ACT08F-EL ACMOS LOGIC	270388
U113, 129, 130,	IC PC74HCT245T-T HCMOS LOGIC	270364
504		
U505	IC PC74HCT125T-T HCMOS LOGIC	270367
U112, 131	IC PC74HCT244T-T HCMOS LOGIC	270391
U144	IC PC74HCT04T-T HCMOS LOGIC	270399
U115	IC TC74ACT32F-ELACMOS LOGIC	270402
U119, 139, 529	IC PC74HCT00T-T HCMOS LOGIC	270369
U902	IC UPD424256LA-10-E2 DRAM	174025
U903	IC MN42156AL-08/	171400
0903	UPD41256L-10-E3	17 1400
Diodes		
D101-104, 501,	D RLS4151	270411
504-507, 801	D NEO-101	270111
D502	DZ RLZ3.3B Zener Diode	270412
		270413
D503	D RGP-10 D SN74S1053NS Array	270414
DA101	D 5117451053115 Afray	270414
Transistors	,	
T502	TR 2SD1484K	270661
Miscellaneous		
FL101-104,	Chip Tube Filter NFM61T20472	270434
109-116		
FL103, 106	Filter NFV610-655-T2A-107	270436
FL105, 100 FL105, 107, 108	Filter NFV610-655-T2A-506	270435
FL301, 302	Chip Filter NFM61T20472	270437

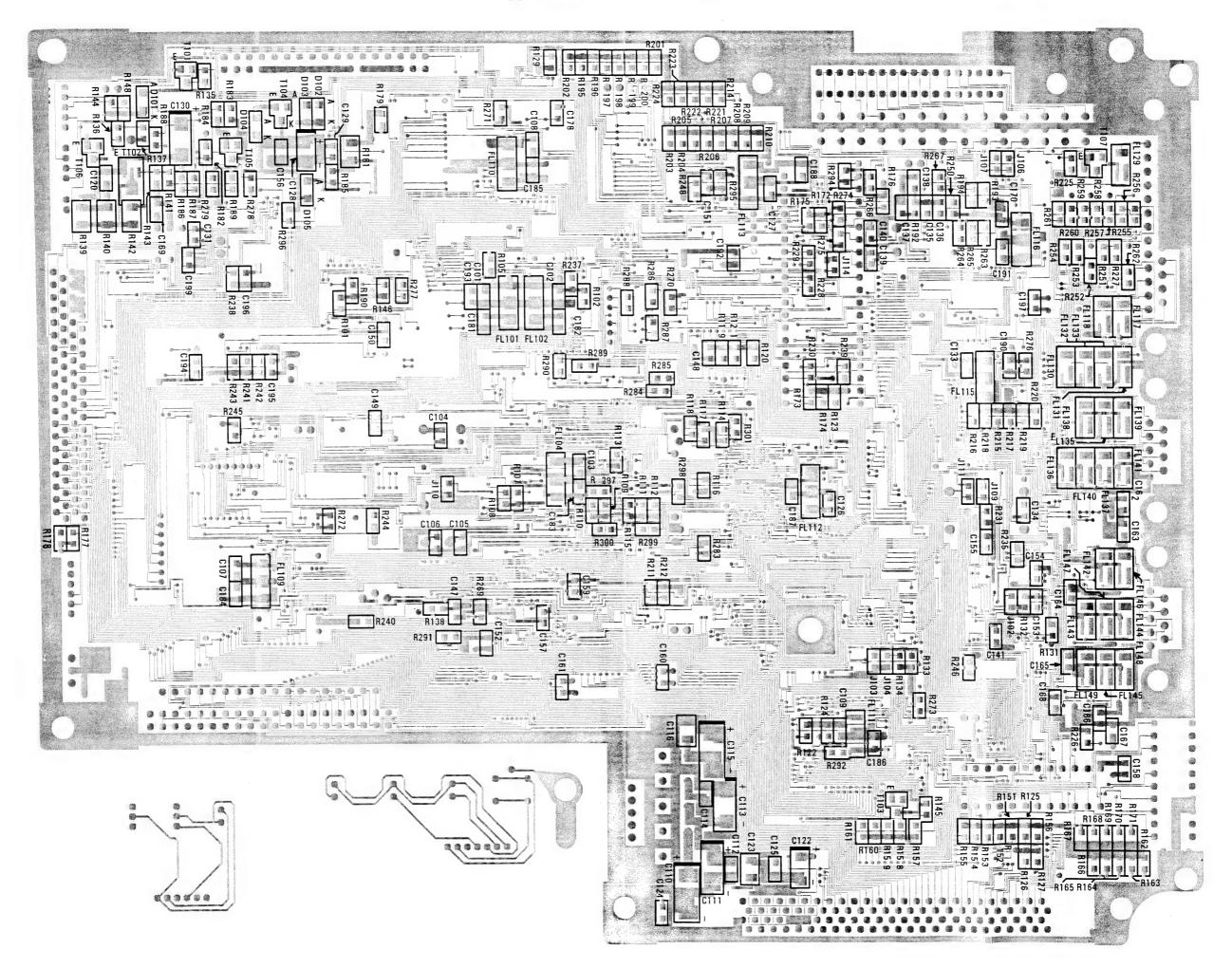
CABINET PARTS LIST

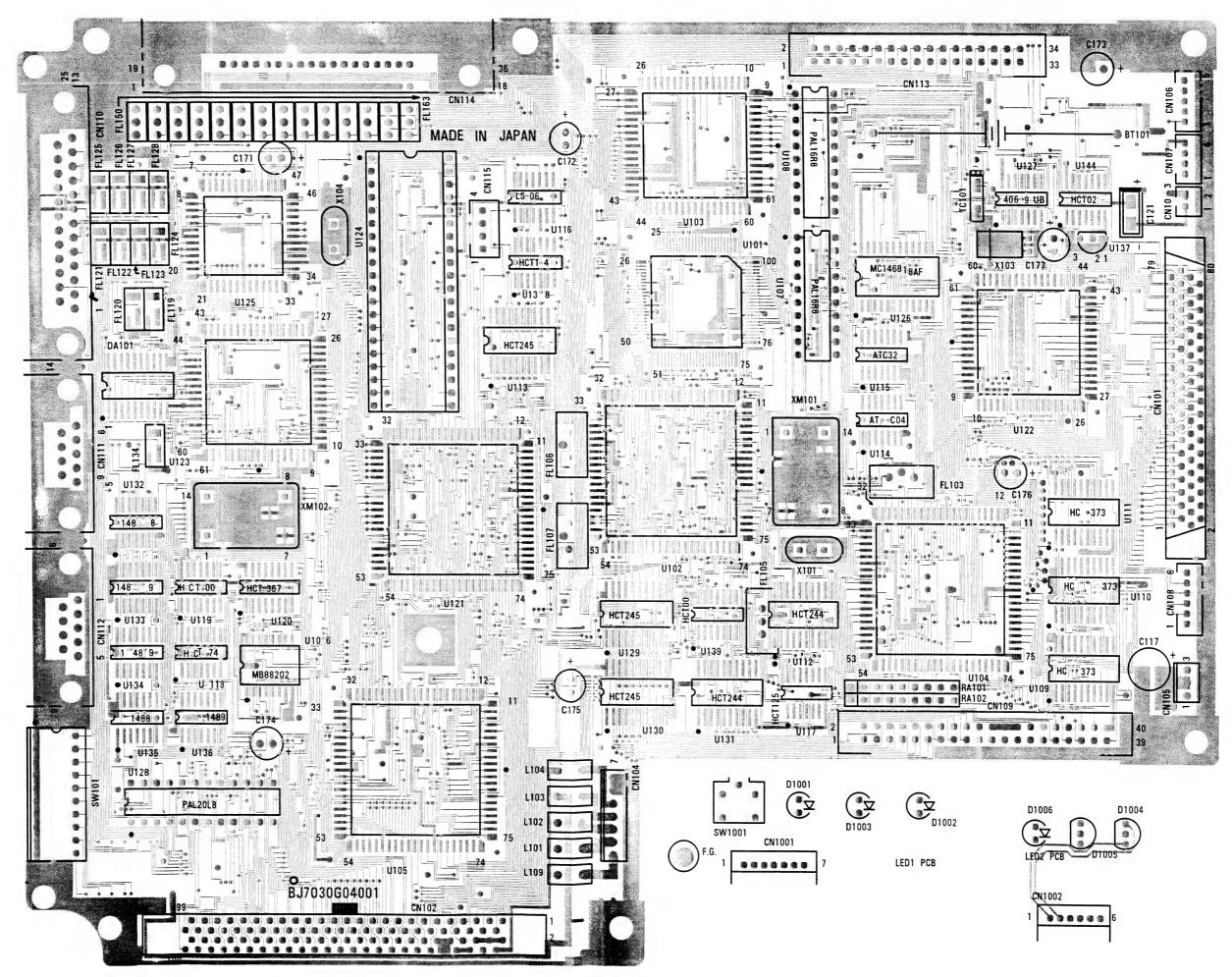
Ref.	Description	Part No.
UN-6	NI-CD Battery Pack	270450
A-1	LCD Cover	270451
B-5	Battery Terminal -	270453
B-6	Battery Terminal +	270454
UN-8	Speaker	270455
A-3	Bottom Cabinet 286	270456FTZ-2
A-3*	Bottom Cabinet 386	270456FTZ-3
A-13 + A-14 + A-15 +	Top Cabinet Assembly	270458
B25 + L15	Top Gabinet Addentisty	270100
A-13	Top Cabinet	270459
A-14	Main LED Cover	270461
	Tilt Arm Unit	270462
B-26		
A-15	Spacer	270463
B-27	Support Bracket	270464
UN-2	Keyboard Unit	270465
A-16	LCD Panel	270466
UN-5 + A17	LCD Protect Sheet + LCD Unit	270468
A-18	LCD Case	270469
B-7	Main PCB Sheet	270470
A-4	Foot	270471
A-5	Lock Knob Battery	270472
B-9	FDD Chassis	270473
B-10	Handle Bracket L	270474
B-10	Handle Bracket R	270475
A-2	Bottom Case Cover	270476FTZ
B-13	Bottom Cover Support Bracket	270477
B-12	Lock Spring B	270479
B-8	VGA Sheet	270481
B-14	HDD Bracket	270482
UN-4	Hard Disk Unit 20MB	270483-20
UN-4*	Hard Disk Unit 40MB	270483-40
A-7	Handle Assembly	270484
B-15	Handle Chassis	270485
B-16	Handle Chassis L	270486
B-17	Handle Chassis R	270487
A-6	Rating Label ALT286	270488
A-6*	Rating Label ALT386SX	270668
A-12	Brand Badge ALT286	270489
B-9	Floppy Bracket	270490
UN-3	Floppy Disk Unit	270491
UN-1	Power Supply Unit	270492
A-10 + A-12	Caser Cover Assembly 286	270492 270493FTZ-2
A-10 + A-12*	Case Cover Assembly 386	270493FTZ-3
		270493712-3
A-10	Case Cover	
A-11	Window Cover	270495
A-12*	Badge ALT386SX	270676
A-19	Lock Lever L	270497
A-20	Lock Lever R	270498
B-31	Hinge Bracket	270499
A-21	Switch Cover	270500
A-22	Contrast Knob	270501
B-28	LCD Case Bush	270502
B-32	Lock Spring A	270503
B-33	LCD Support Bracket	270504
UN-7	Fan Motor 0410-12	270505
B-34	Inverter Seat	270442
B-36	Skid Bracket	270496
B-2	Power Cover	270562

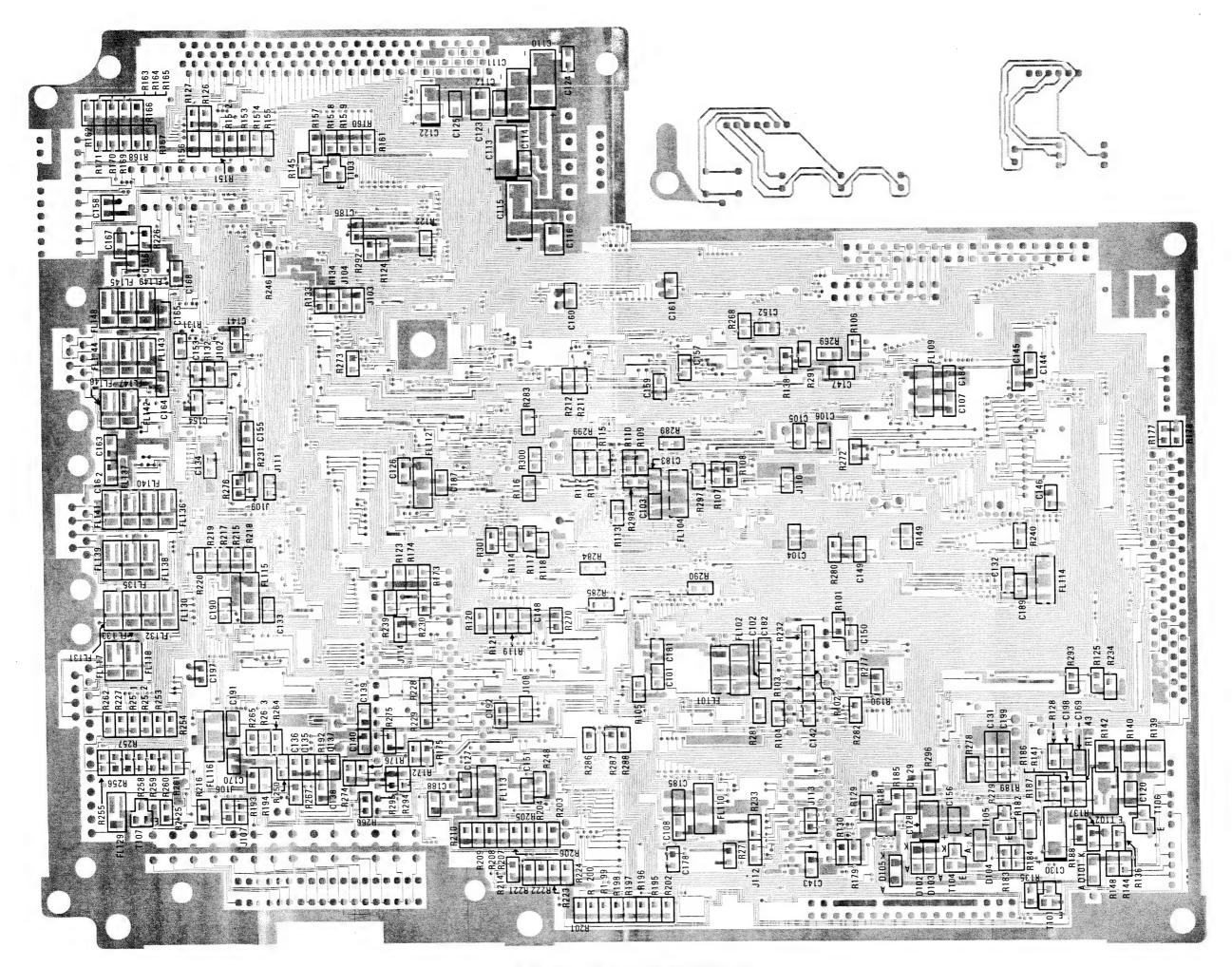
^{*} Parts apply to ALT386SX only.



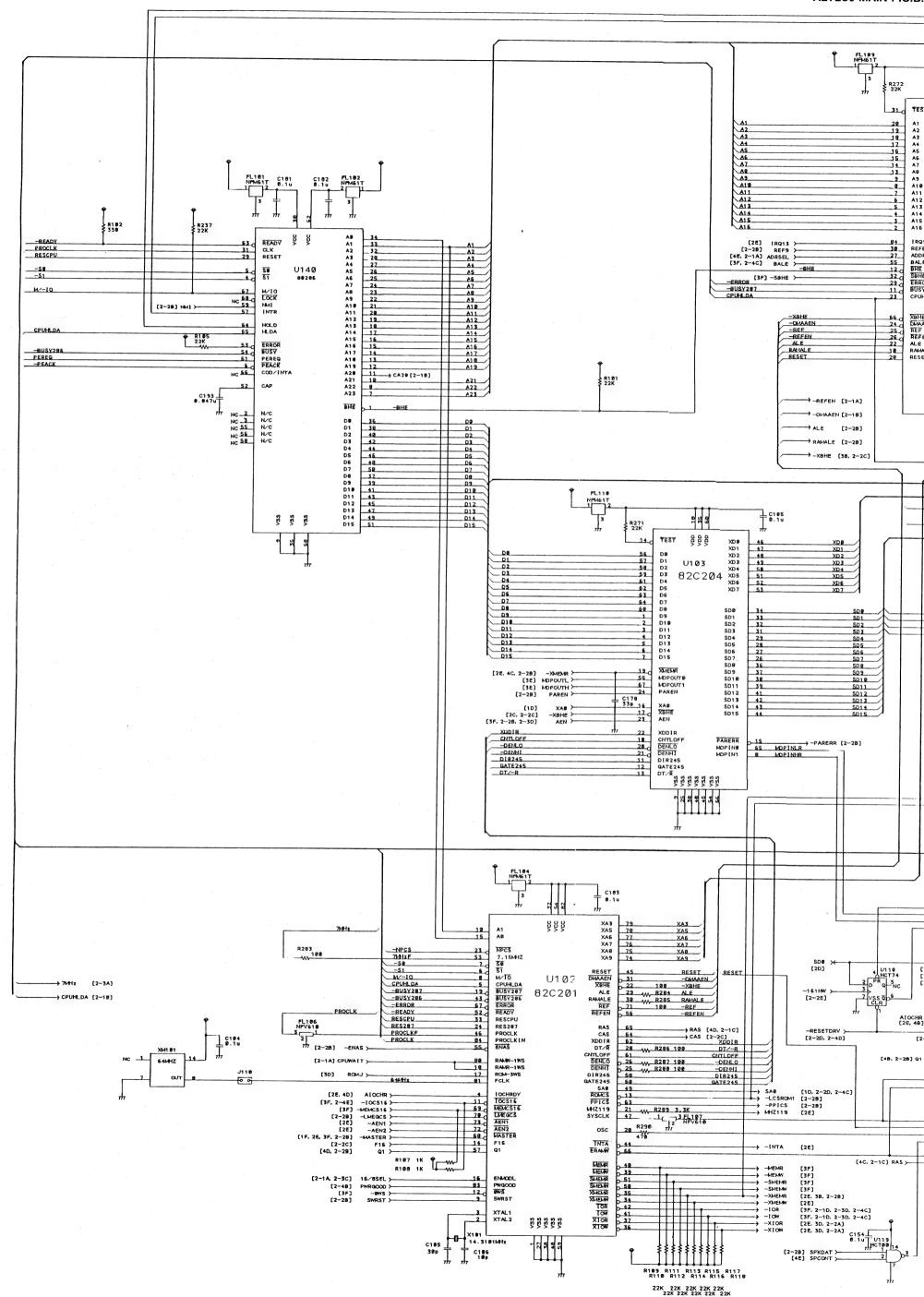


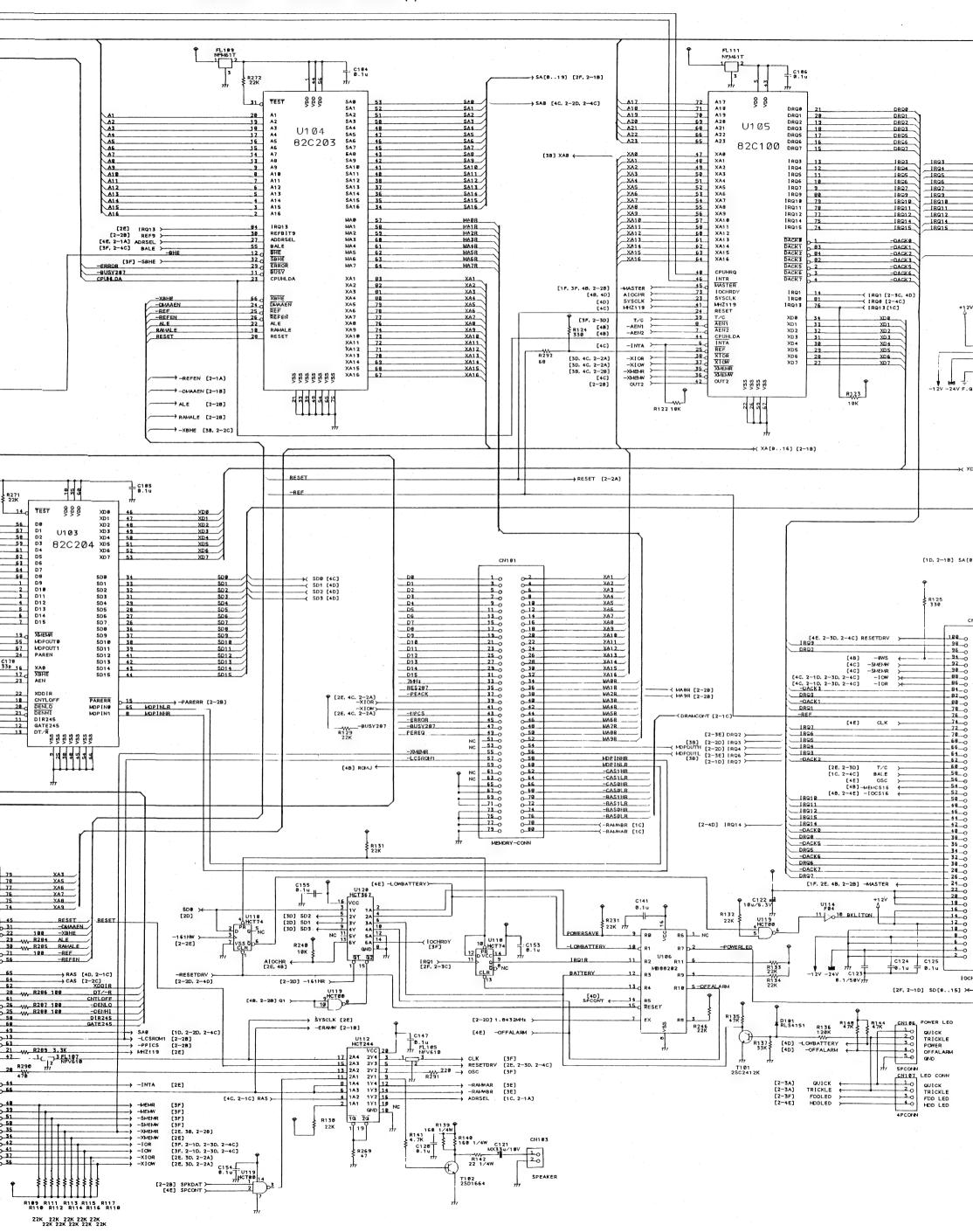




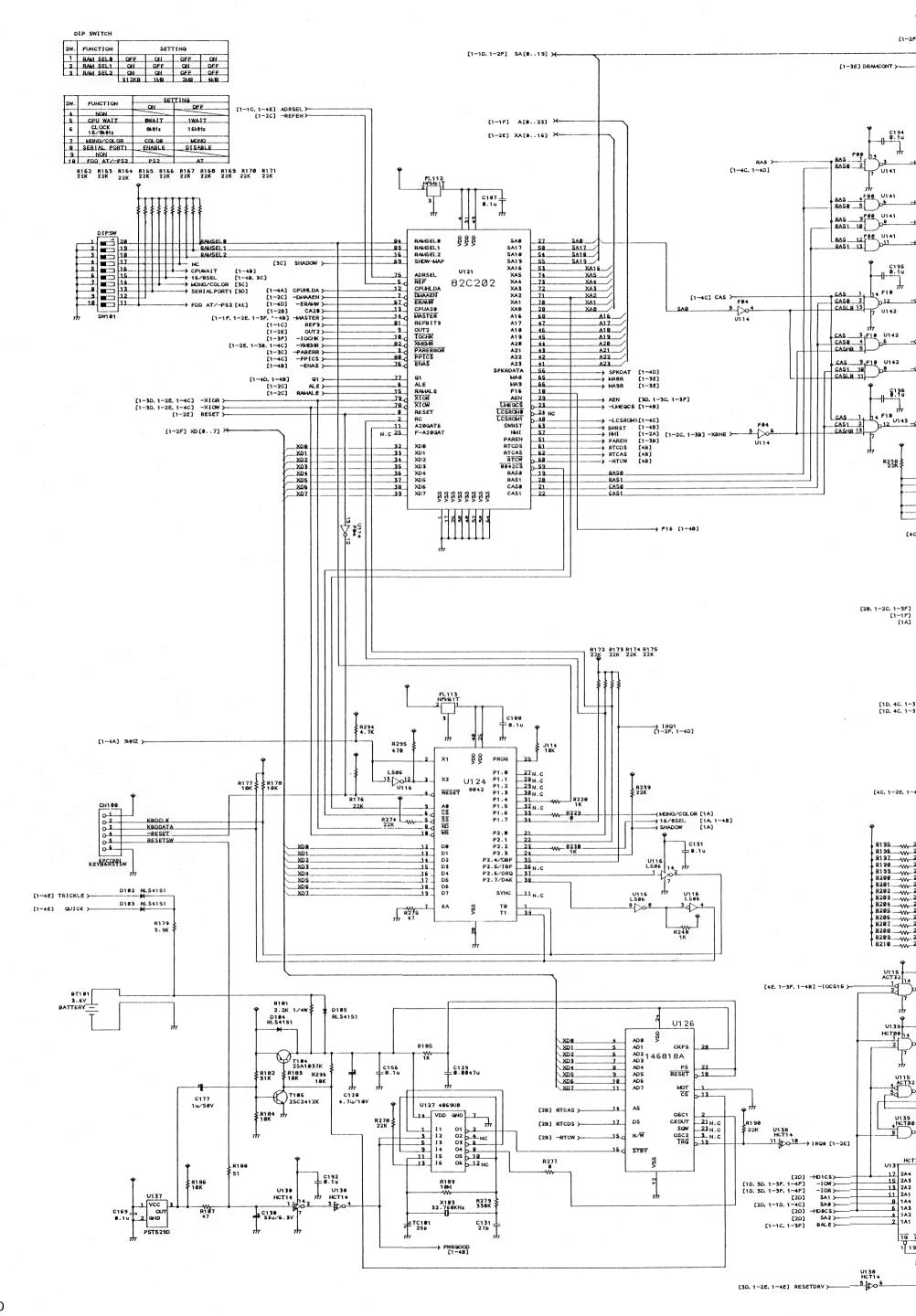


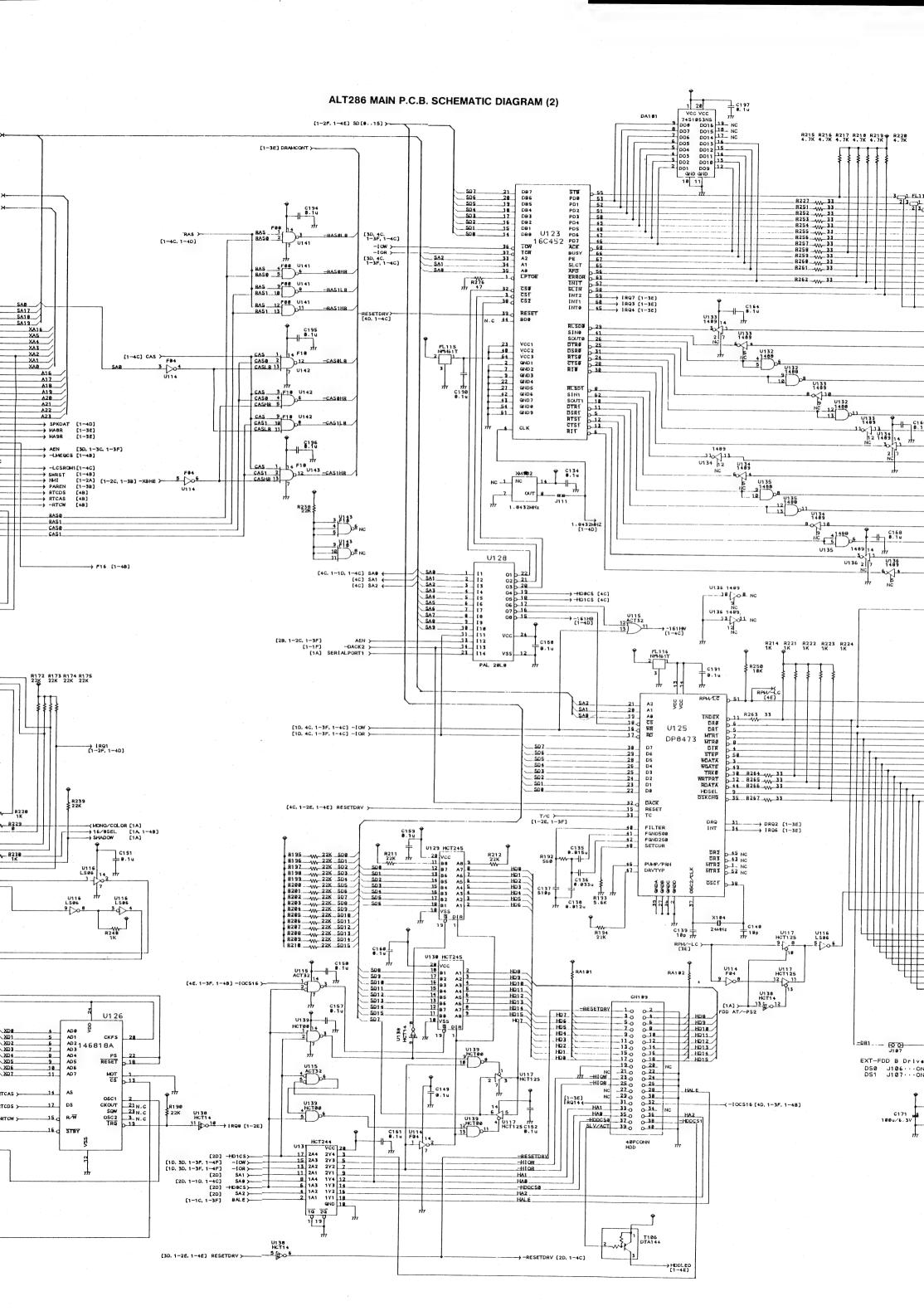
ALT3865X MAIN P.C.B BOTTOM VIEW

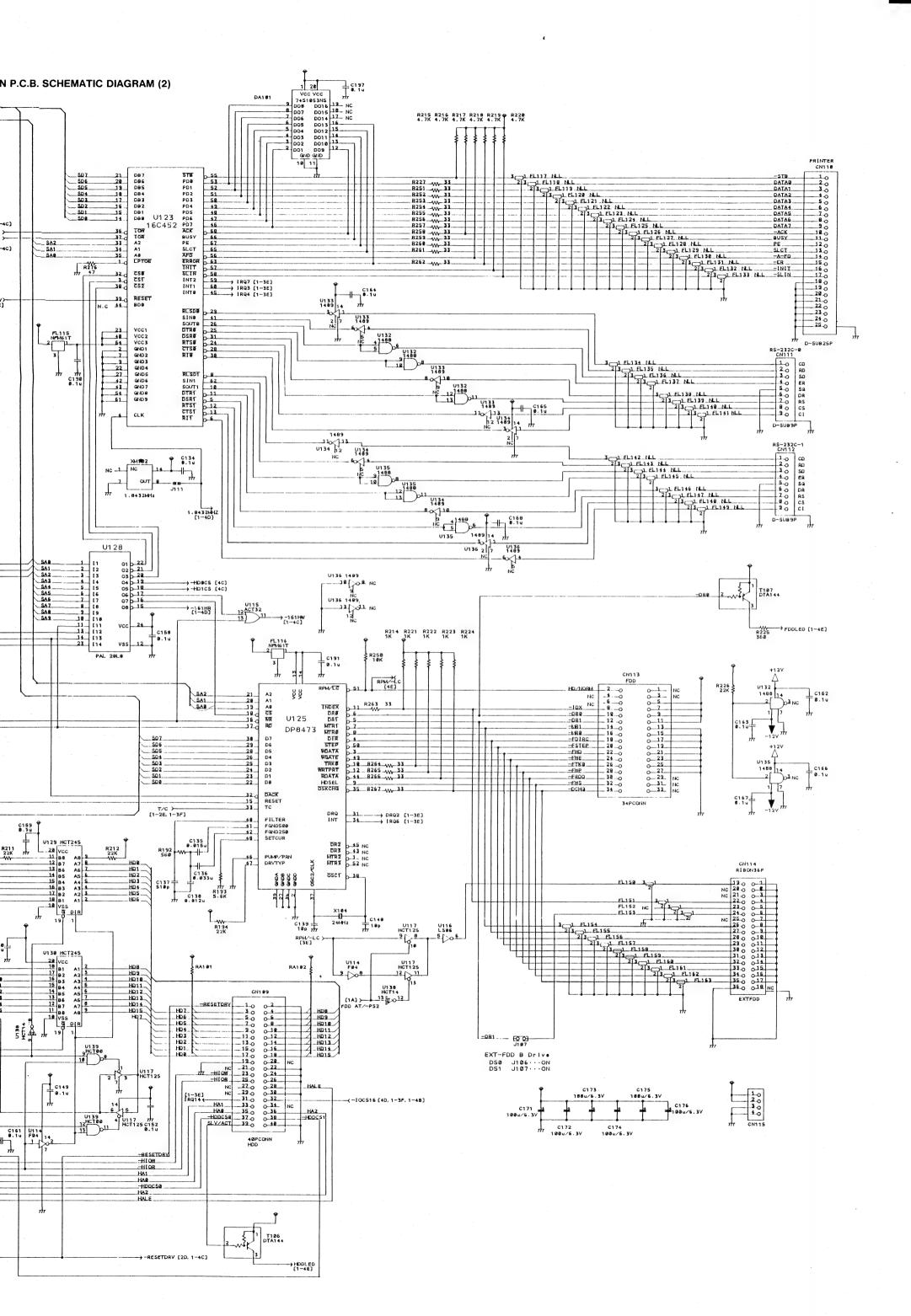


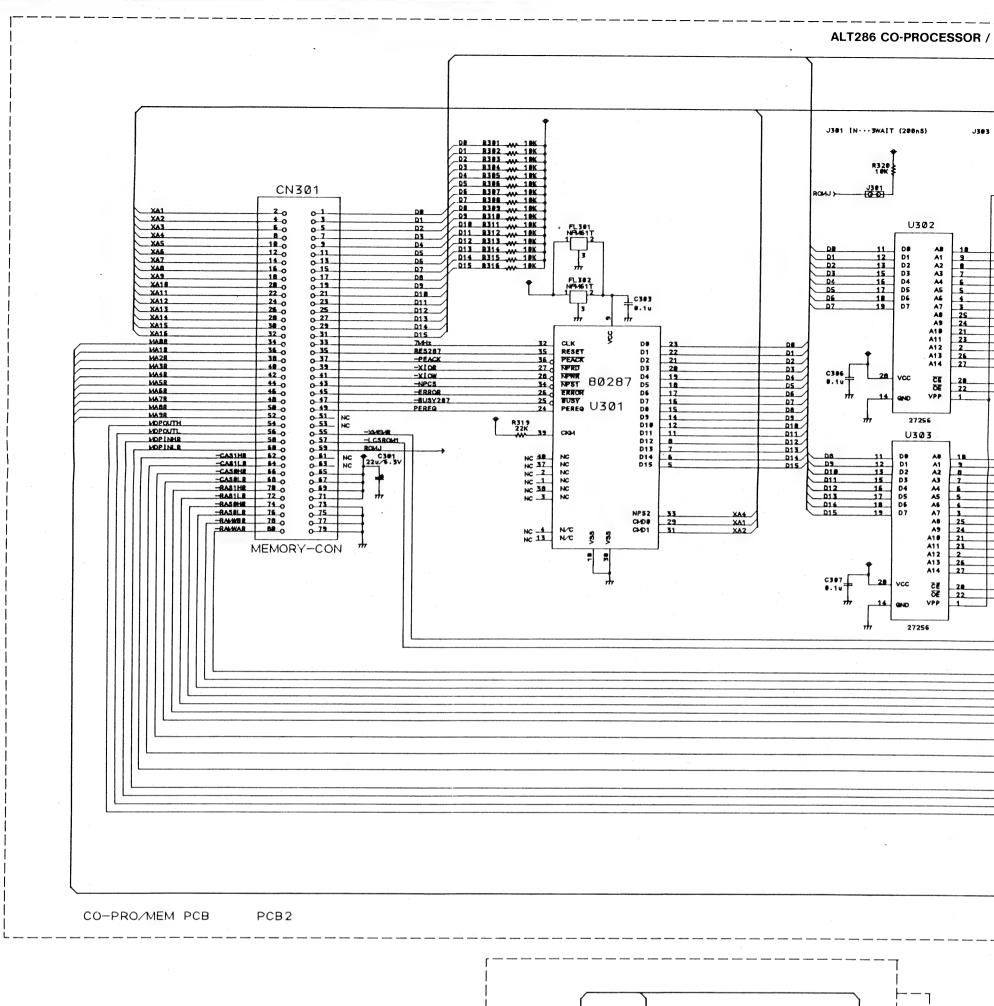


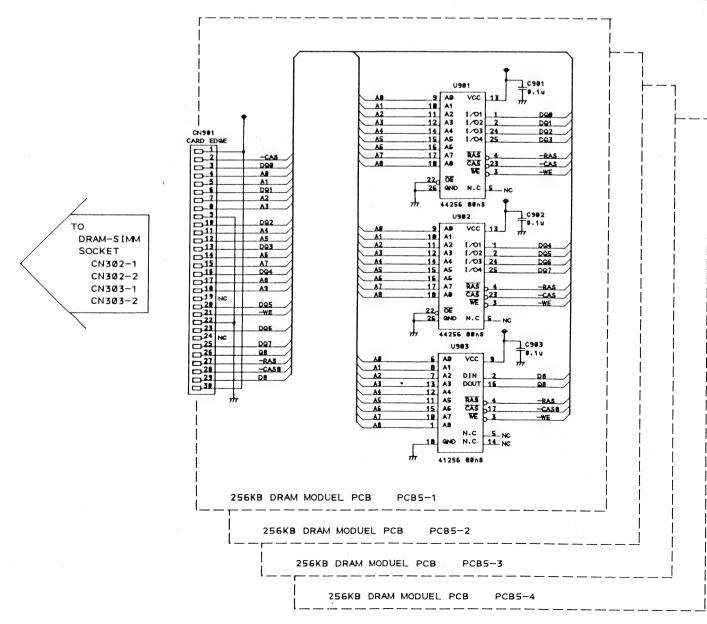
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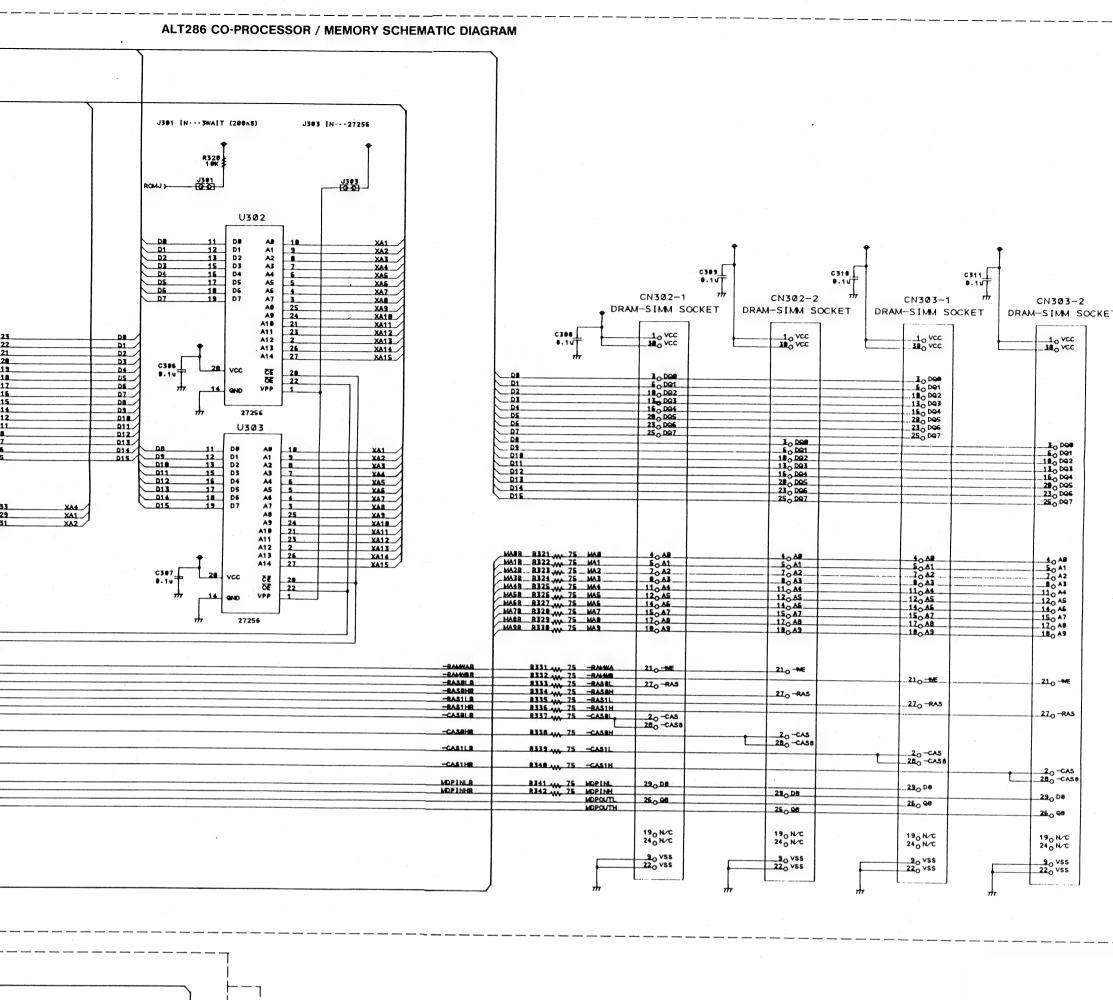


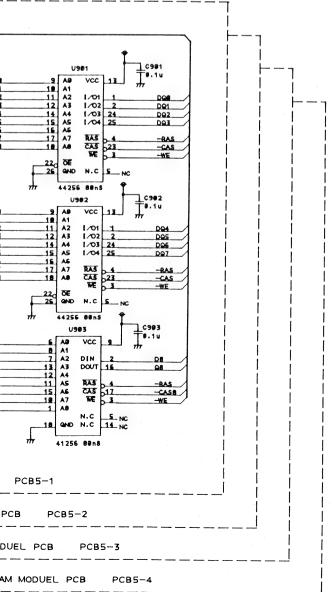


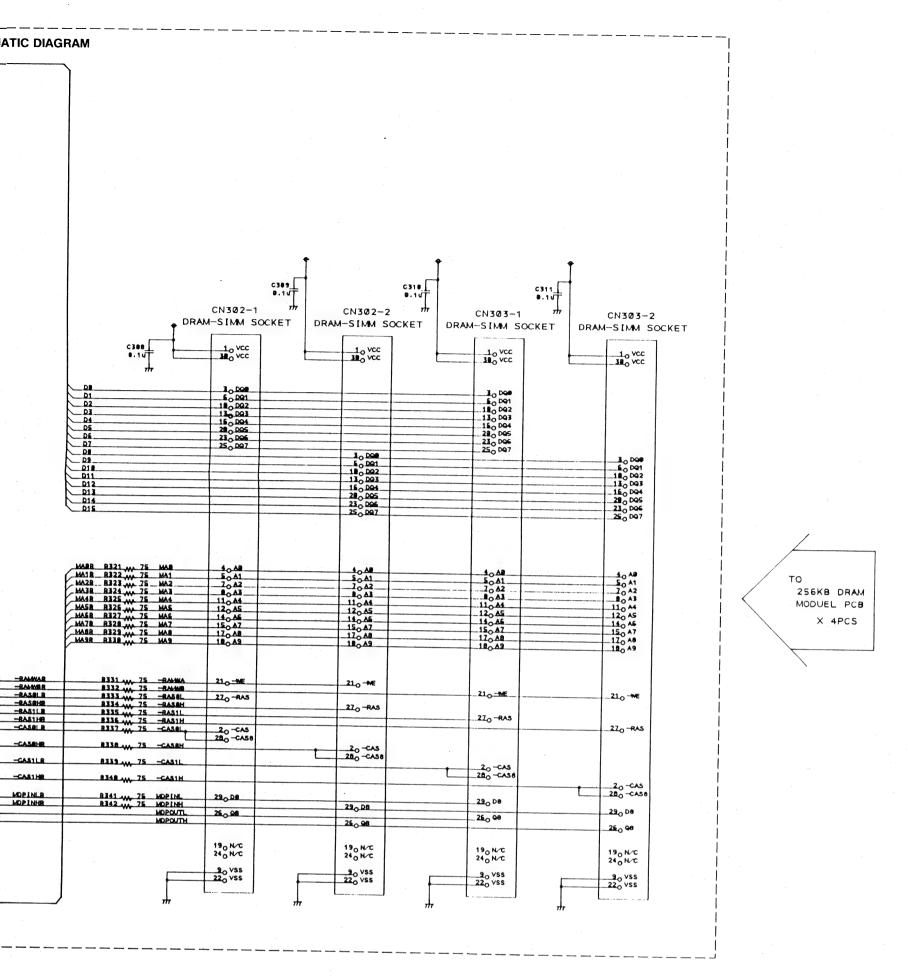


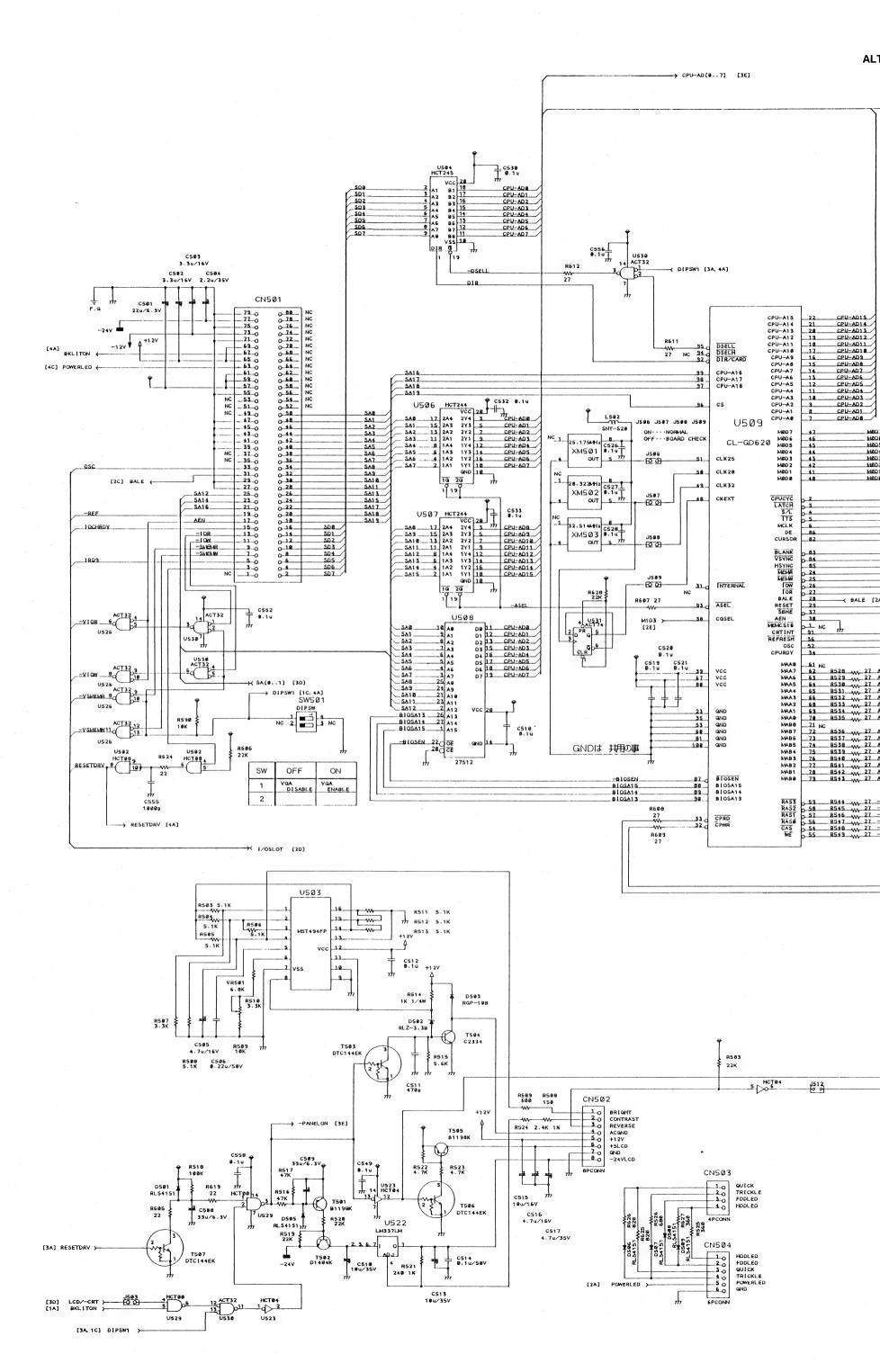




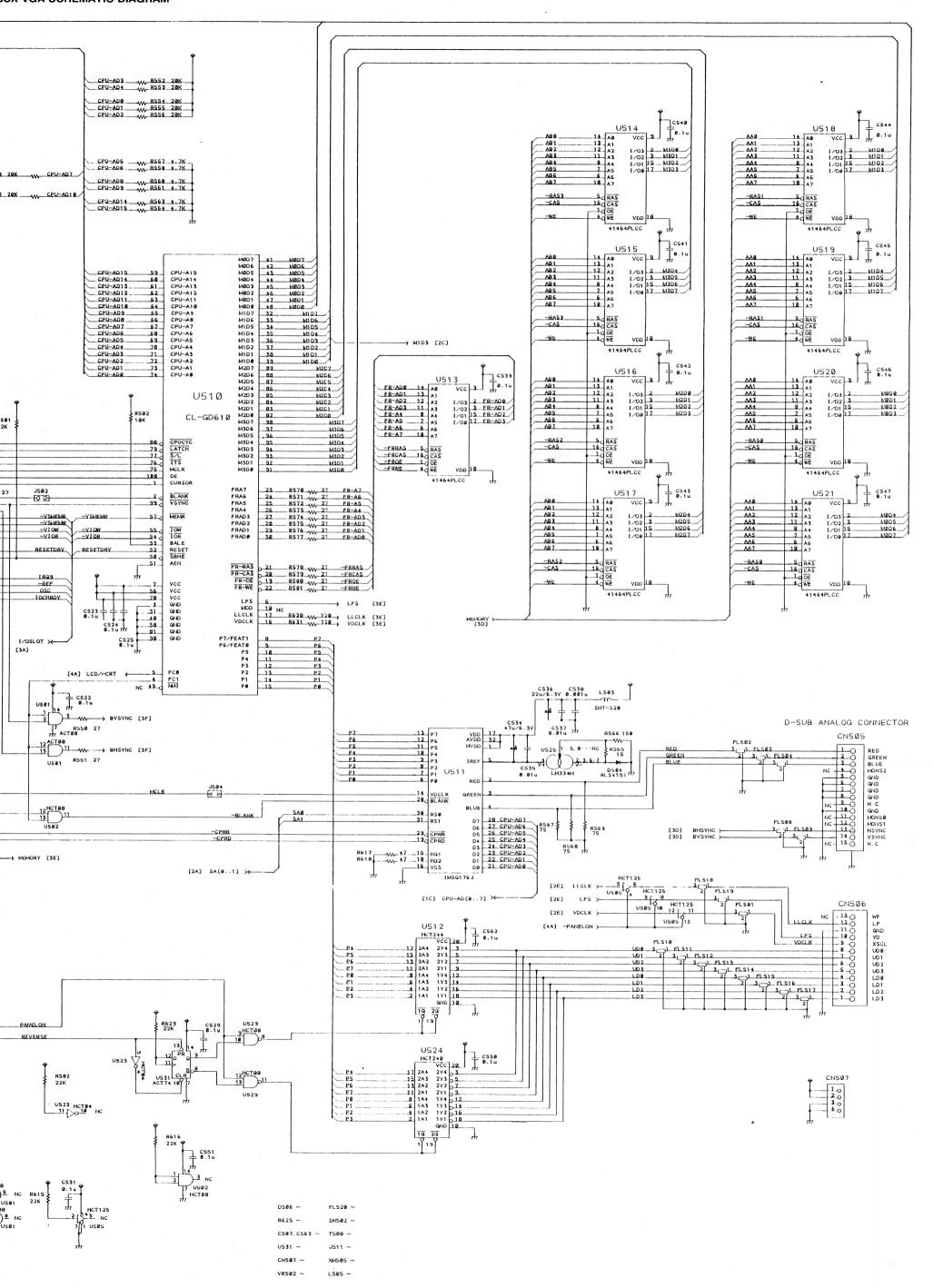


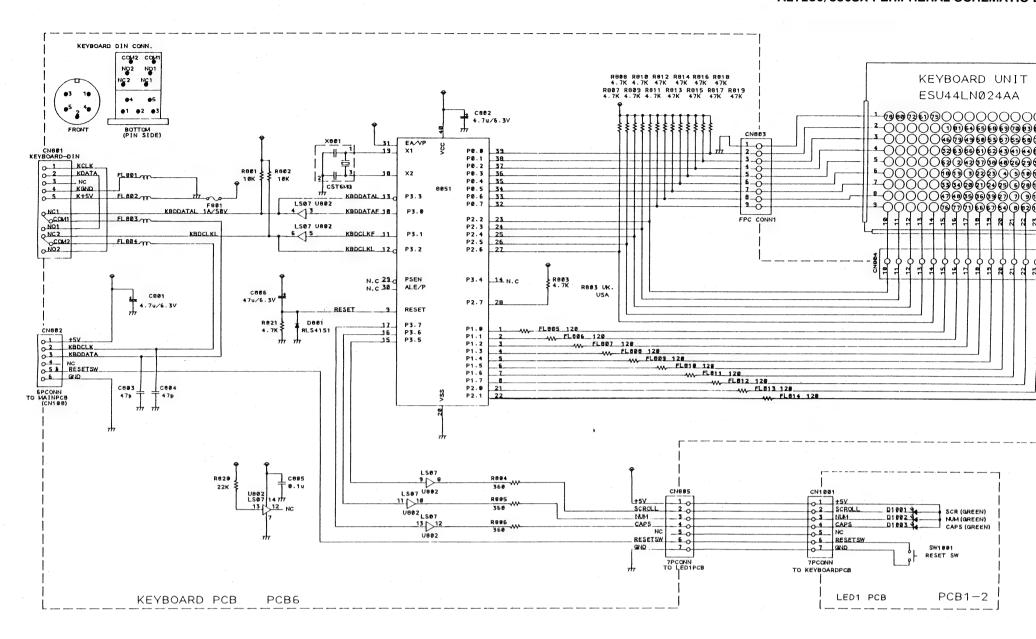


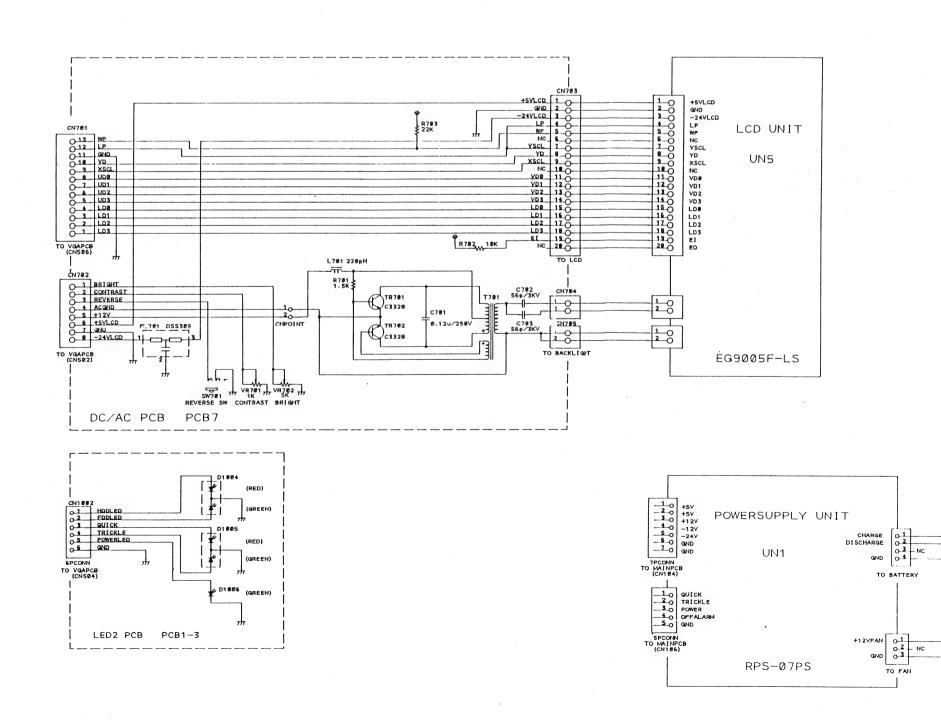




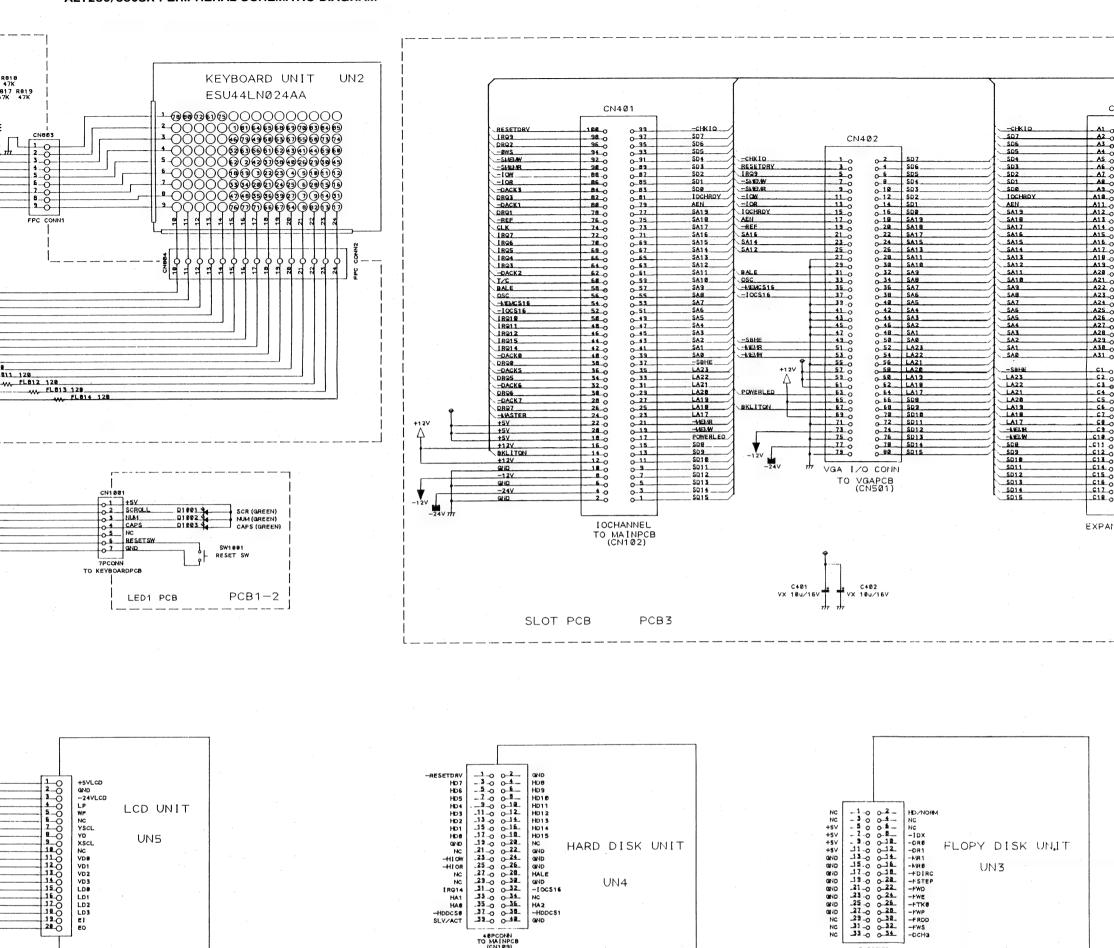
ALT286/386SX VGA SCHEMATIC DIAGRAM → CPU-AD[0..7] [3E] W R552 20K AB 4 0.1u -RAS3 CPU-AD14 W R563 4.7K R612 -W-27 CPU-AD15 CPU-AD14 CPU-AD12 CPU-AD12 CPU-AD11 CPU-AD19 CPU-AD19 CPU-AD9 CPU-AD9 CPU-AD9 CPU-AD6 CPU-AD6 CPU-AD6 CPU-AD6 CPU-AD7 CPU-AD6 CPU-AD6 CPU-AD6 CPU-AD7 CPU-AD6 CPU-AD7 CPU-AD7 CPU-AD7 CPU-AD7 CPU-AD7 CPU-AD7 CPU-A15 CPU-A14 CPU-A13 CPU-A11 CPU-A11 CPU-A6 CPU-A6 CPU-A6 CPU-A5 CPU-A5 CPU-A5 CPU-A4 CPU-A3 CPU-A1 CPU-A1 MØD7 MØD6 MØD5 MØD4 MØD4 MØD1 MØD0 M1D7 M1D6 M1D5 M1D5 M1D4 M1D5 M1D1 M1D0 M2D7 M2D6 M2D5 M2D5 M2D4 M2D3 M2D4 M2D3 M2D4 M3D7 MØD5 MØD5 MØD4 MØD3 13 12 11 8 7 6 AB1 AB2 AB3 AB4 AB5 CPU-A15 CPU-A14 CPU-A13 CPU-A11 CPU-A10 CPU-A9 CPU-A9 CPU-A7 CPU-A6 CPU-A5 CPU-A4 CPU-A5 CPU-A4 CPU-A5 CPU-A4 CPU-A3 CPU-A3 CPU-A2 CPU-AD1 CPU-AD14 CPU-AD13 CPU-AD12 CPU-AD11 CPU-AD18 NC 91 0 CPU-AD1 CPU-AD2 CPU-AD3 CPU-AD4 CPU-AD5 CPU-AD4 CPU-AD4 CPU-AD4 CPU-AD3 CPU-AD1 CPU-AD1 CPU-AD8 CPU-A16 CPU-A17 CPU-A18 MID5 MIDS → M1D3 [2C] cs L502 TT-SNT-S20 01 02 03 04 05 J596 J597 J598 J599 U509 25.175MHz XM5Ø1 OUT 5 777 VCC 9 7,0.16 MODS MODS MODS MODS MODS AB 9 AB 1 AB 2 AB 3 AB 4 AB 5 AB 6 AB 7 M2f 5 CL-GD620 FR-ADR 14 A8 FR-AD1 13 A1 ER-AD2 12 A2 FR-AD3 11 A3 FR-A4 6 A4 FR-A5 7 A5 FR-A6 6 A6 FR-A7 18 A7 M2C4 M2C3 J586 <u>(조 소</u> U510 1/03 2 FR-A08 1/02 3 FR-A01 1/01 15 FR-A02 1/08 17 FR-A03 CLK25 M2C2 M2C1 M2DØ CLK28 CL-GD610 26.322MHz C527 C527 C527 COUT S 777 M3D 6 M3D 5 M3D 4 M3D 3 M3D 2 M3D 1 M3D 6 M3D6 M3D5 M3D4 J587 CPUCYC LATCH S/L ITS MCLK DE CURSOR CPUCYC LATCH S/L ITS CKEXT -RAS2 00 -FRRAS 5 RAS -FRCAS 16 CAS -FROE 1 0 0E -FRYE 10 WE M3D3 M3D2 M3D1 M3D0 XM503 0.1 uT 5 m 08 018 011 012 013 014 100 DE CURSOR J598 41464PLCC FRA7 FRA6 FRA5 FRA4 FRAD3 FRAD2 FRAD1 FRAD6 8578 W 27 8571 W 27 8572 W 27 8573 W 27 8573 W 27 8575 W 27 8576 W 27 8577 W 27 R594 27 J5@2 <u>₹Ø Ø</u> BLANK VSYNC BLANK VSYNC FR-A5 FR-A5 FR-A4 FR-AD3 FR-AD2 FR-AD1 FR-AD6 24 25 26 27 28 29 30 AB 0 AB 1 AB 2 AB 3 AB 4 AB 5 HSYNC MEMR MEMW TOW TOR MEMR J589 -VSMEN TOW TOR BALE RESET SBHE NTERNAL WOIV-R628 NC BALE RESET SBHE AEN MEMCS16 CRTINT REFRESH OSC CPURDY AB 7 10 ASEL RESETDRY RESETDRY 4 U531 0AC174 2 PR Q 5 8578 W 27 8579 W 27 8589 W 27 8581 W 27 M1D3 [2E] AEN 01 / 02 / 03 / 04 / 05 / 06 / 07 / 91 36 52 1809 -REF OSC 10CHRDY C528 8.1 u 56 78 31 40 58 81 LFS MOD LLCLK VDCLK C519 C521 0.1u 0.1u 8528 W 27 AA7 8529 W 27 AA6 8538 W 27 AA6 8538 W 27 AA6 8531 W 27 AA4 8533 W 27 AA2 8533 W 27 AA2 8534 W 27 AA4 0.1u VCC VCC _52 _62 MEMORY (I/OSLOT > [34] P6 P5 P4 P3 P2 P1 P8 9250 R536 W 27 A87 R537 W 27 A66 R538 W 27 A66 R538 W 27 A68 R548 W 27 A68 R548 W 27 A63 R541 W 27 A62 R542 W 27 A68 R541 W 27 A68 5 NC 19 18 ' [+A] LCD/-CRT C536 C538 224/6.3V 0.0014 GNDは 共用の事 U501 7 R550 27 BIOSEN BIOSEN BIOSA15 BIOSA14 BIOSA13 BIOSA15 BIOSA14 BIOSA13 $\begin{array}{c|c} 12 & ACT & 06 \\ \hline 13 & 11 & W & \rightarrow BHSYNC & (3F) \end{array}$ R544 W 27 -RAS1 R545 W 27 -RAS2 R546 W 27 -RAS1 R547 W 27 -RAS8 R548 W 27 -CAS R549 W 27 -WE 5. 8 · · · NC C535 V4 R551 27 CPRD U501 U511 LM334M R609 14 VDCLK GREEN 12HCT08 13 11 U582 RSØ RS1 07 28 CPU-AD7 D6 27 CPU-AD6 D5 26 CPU-AD5 D4 25 CPU-AD4 D3 24 CPU-AD3 D2 23 CPU-AD2 D1 22 CPU-AD1 D8 21 CPU-AD8 R569 75 290 CPWR +7 15 Hq1 +7 18 Hq2 VSS R568 777 MEMORY [3E] [2A] SA[0..1] > [2E] LICLK >-[1C] CPU-AD[0..7] X-U512 __ P1 __ P1 __ P2 __ P3 R563 22K 0529 9HCT00 5 HCT84 1512 0 0 U524 HCT240 17 244 274 3 15 243 273 5 13 242 272 5 13 241 274 5 14 144 174 5 14 142 177 5 2 141 171 5 2 141 171 5 2 141 171 5 2 141 171 5 3 173 5 1 19 11 CN502 1 0 2 0 3 0 4 0 5 0 6 0 7 0 8 0 BRIGHT CONTRAST REVERSE ACOND +12V +5LCD GND -24VLCD 12HCT@0 P4 P5 P6 P1 P0 P1 P2 P2 R582 22K U531 CL ACT74 18) U529 U523 HCT94 CN503 1.0 2.0 1.0 1.0 QUICK TRICKLE FDDLED HDDLED 5 16V C551 0.1u 14 3 NC 17 U502 HCT09 C516 .74/16V C517 4.7u/35V CN504 FL520 SW502 ~







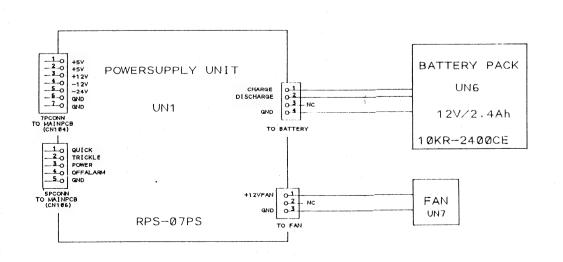
ALT286/386SX PERIPHERAL SCHEMATIC DIAGRAM



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386SX···CP3044

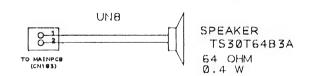
286 · · · · · CP3024



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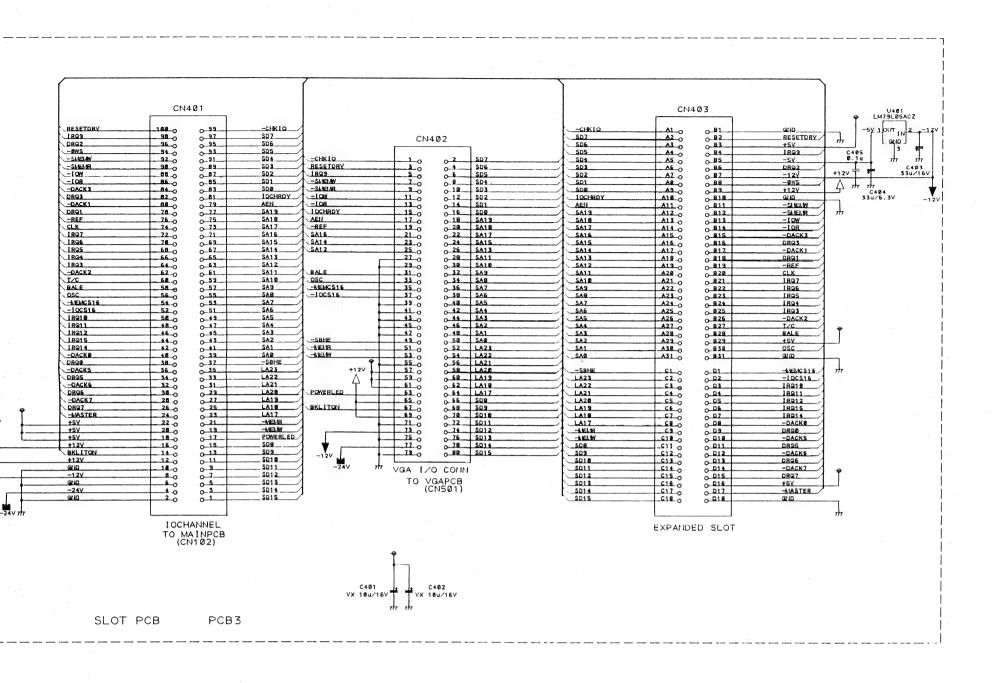
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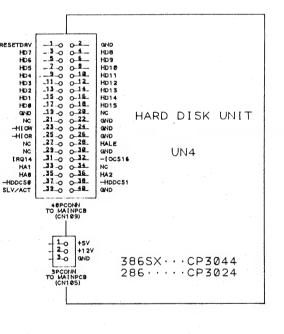
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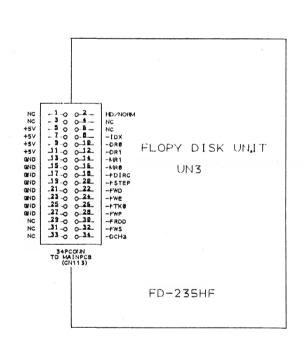


TO MAINPCB

FD-235HF



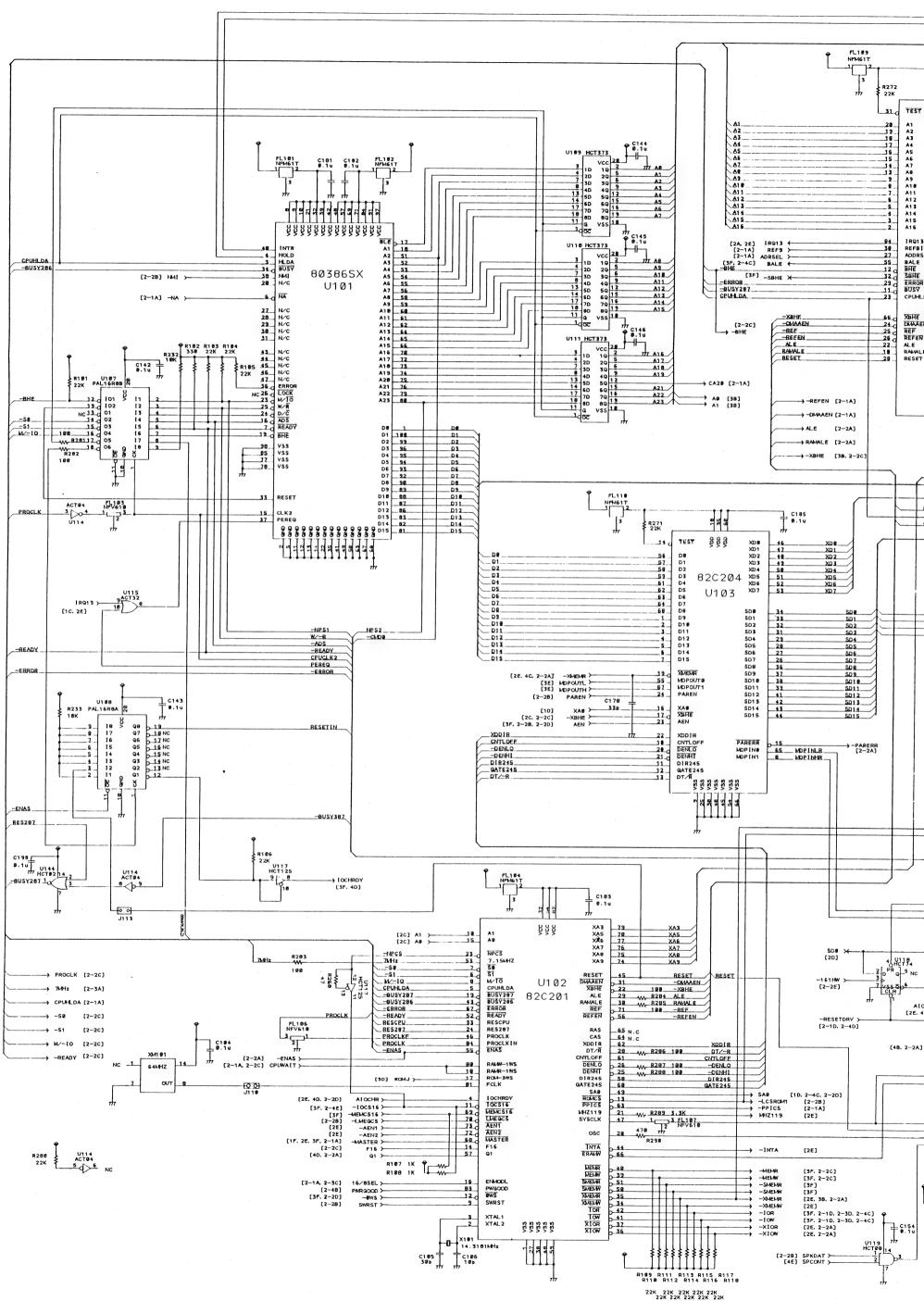


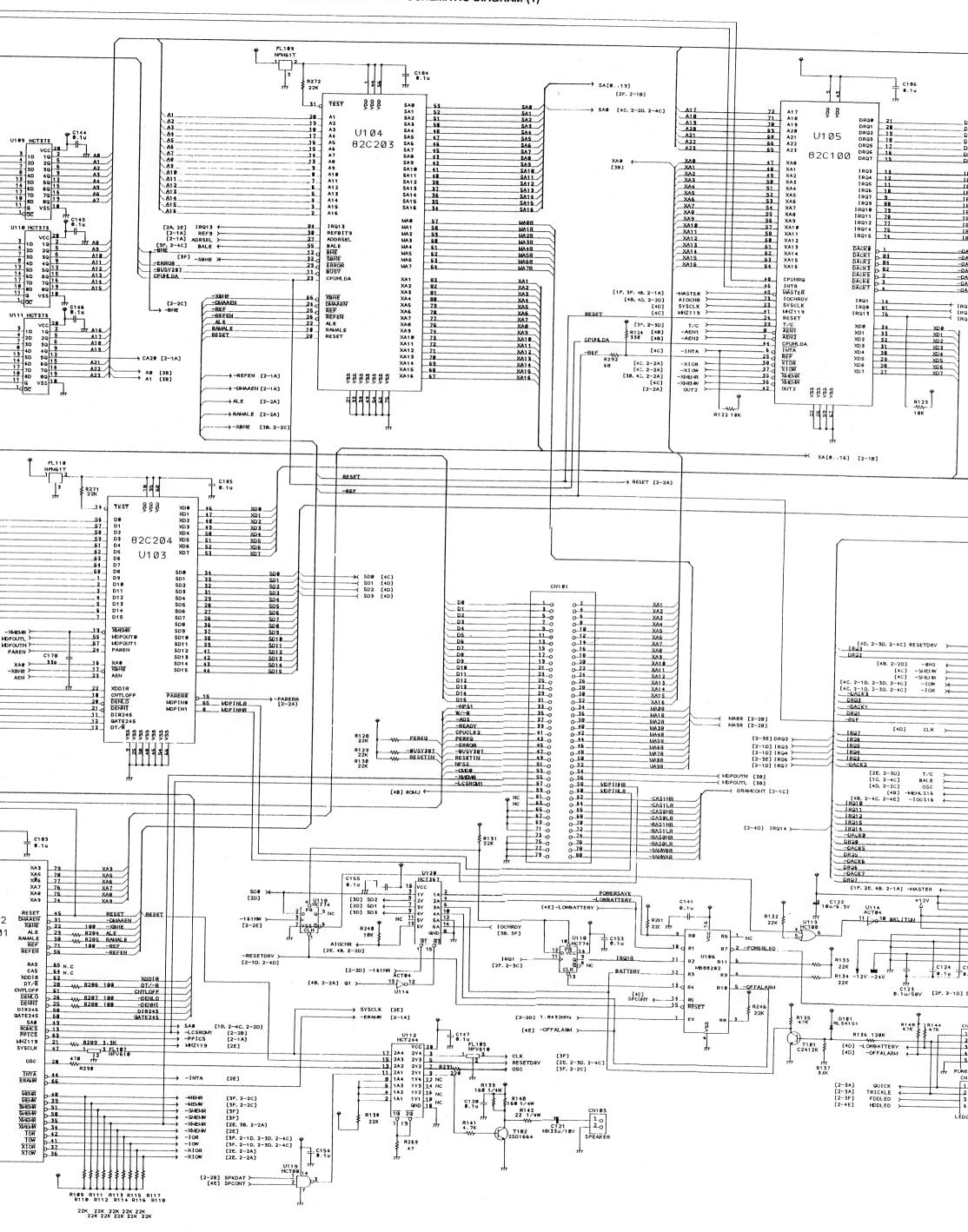


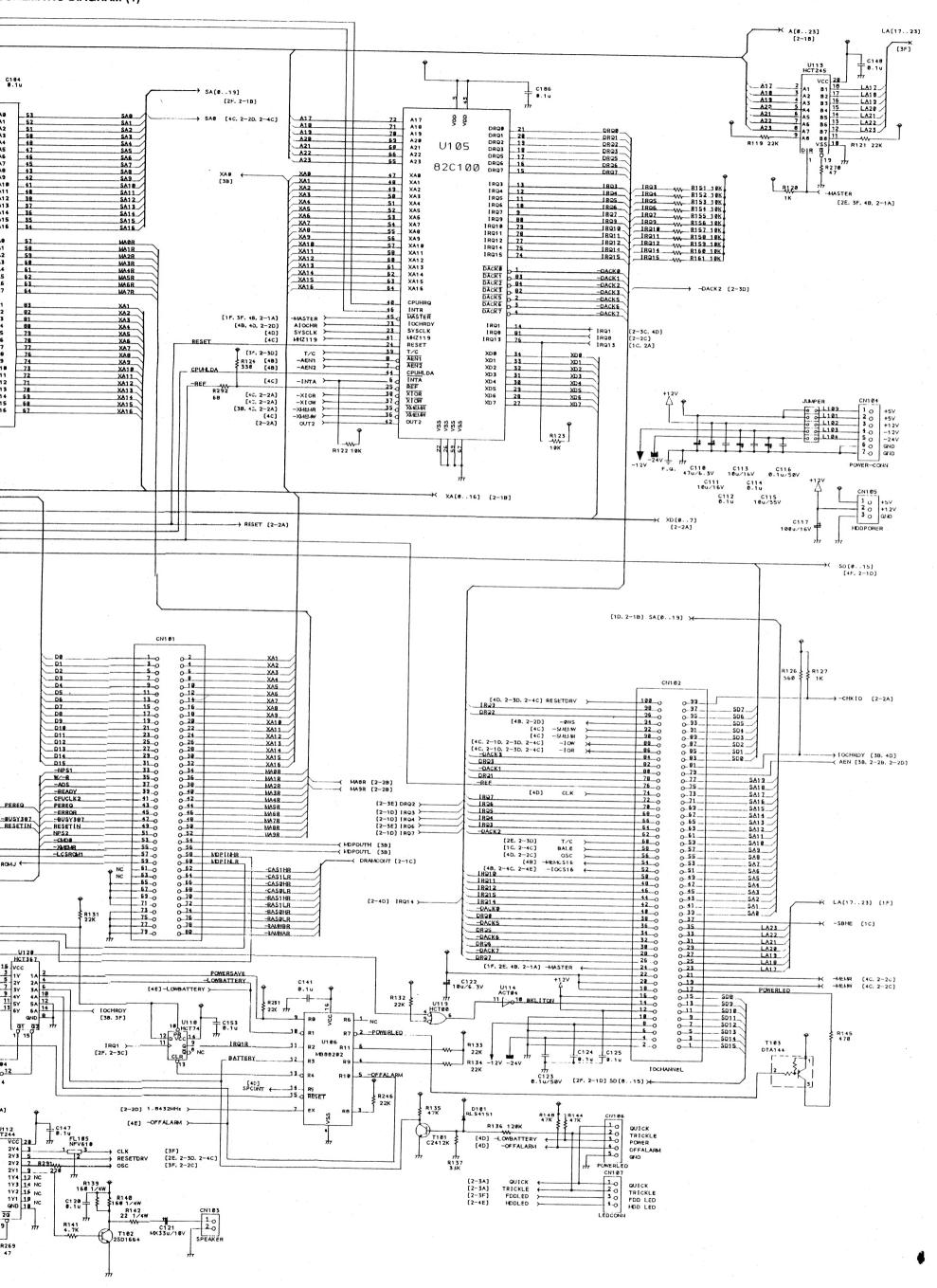
UN6 12V/2.4Ah

AN N7 UNB
SPEAKER
TS30T64B3A

64 OHM
0.4 W







ALT386SX MAIN P.C.B. SC

